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MSDS

Common Name: LEMON FURNITURE POLISH**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 1/25/2012**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2CXR4**Manufacturer Model Number(s):**

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TOUGH GUY (TM)

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION



NAME: LEMON FURNITURE POLISH

USE: FURNITURE POLISH

LABEL BRAND: TOUGH GUY

MSDS #: FM007435L

CODE #: 4569801, 2CXR4

W.W. GRAINGER, INC.
100 GRAINGER PARKWAY
LAKE FOREST, IL 60045
USA

EMERGENCY PHONE #: 1-800-983-4582 USA (24/7)

PHONE#: 1-847-535-1000

TECHNICAL SERVICE#: 1-847-793-5187

REVIEWED: 1-25-12

REVISED: 1-25-12

SECTION REVISED: 1

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW: NON-IRRITATING TO EYES AND SKIN.

PRINCIPLE ROUTES OF EXPOSURE: EYES, INGESTION

POTENTIAL ACUTE HEALTH EFFECTS:

EYES: NONE KNOWN.

SKIN: NONE KNOWN.

INHALATION: NONE KNOWN.

INGESTION: MAY CAUSE ABDOMINAL DISCOMFORT, NAUSEA, VOMITING AND DIARRHEA.

MEDICAL CONDITIONS AGGRAVATED: NONE KNOWN.

3. COMPOSITION / INFORMATION ON INGREDIENTS



HAZARDOUS INGREDIENT	CAS #	% BY WT	LC50/LD50
NONE	N.A.P.	N.A.P.	N.A.P.

STATE RIGHT TO KNOW:

THIS PRODUCT CONTAINS:

WATER/7732-18-5, WHITE MINERAL OIL/8042-47-5, SILICONES/63148-62-9,
NAPTHA, PETROLEUM, LIGHT ALKYLATE/64741-66-8

4. FIRST AID MEASURES



EYES:

FLUSH IMMEDIATELY WITH PLENTY OF WATER. IF IRRITATION DEVELOPS,
GET MEDICAL ATTENTION.

SKIN:

FLUSH IMMEDIATELY WITH PLENTY OF WATER. IF IRRITATION DEVELOPS,
GET MEDICAL ATTENTION.

INHALATION: NO SPECIFIC FIRST AID MEASURES ARE REQUIRED.

INGESTION:

DO NOT INDUCE VOMITING. IF PATIENT IS CONSCIOUS AND CAN SWALLOW,
ADMINISTER MILK OR WATER.

ADMINISTER FIRST AID TREATMENT AS STATED ABOVE, THEN CALL 1-800-983-4582
OR CONTACT PHYSICIAN FOR FURTHER MEDICAL INSTRUCTIONS.

NOTE TO PHYSICIAN:

CALL: 1-800-983-4582 FOR ASSISTANCE WITH THE MANAGEMENT OF EXPOSURES.

5. FIRE-FIGHTING MEASURES



FLAMMABILITY: NO HAZARD.

FLASH POINT: N.AP.

PRODUCTS OF COMBUSTION: SEE SECTION 10.

SUITABLE EXTINGUISHING MEDIA:

FOR FIRES IN AREA, USE APPROPRIATE MEDIA. FOR EXAMPLE:
WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, OR ALCOHOL FOAM.

SPECIFIC HAZARDS: N.AP.

SPECIFIC METHODS: NORMAL FIRE FIGHTING PROCEDURES MAY BE USED.

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS: SEE SECTION 8.

SPILL RESPONSE:

EVACUATE UNPROTECTED PERSONNEL FROM AREA. WEAR PROPER PROTECTIVE EQUIPMENT INCLUDING RUBBER BOOTS. VENTILATE AREA IF NEEDED. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. DIKE OR DAM LARGE SPILLS. AVOID DIRECT DISCHARGE TO SEWER AND SURFACE WATERS. PUMP TO CONTAINER OR SOAK UP WITH NON-COMBUSTIBLE INERT ABSORBENT MATERIALS. AFTER SPILL COLLECTION, FLUSH AREA WITH WATER AND FOLLOW WITH NORMAL CLEAN-UP PROCEDURES. BE CAREFUL AS SPILLS ARE SLIPPERY.

7. HANDLING AND STORAGE



HANDLING:

FOLLOW ALL LABEL DIRECTIONS. INSTRUCT PERSONNEL ABOUT PROPER USE, HAZARDS, PRECAUTIONS, AND FIRST AID MEASURES. AVOID INGESTION AND CONTACT WITH EYES. DO NOT TASTE OR SWALLOW. REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE. PRODUCT RESIDUE MAY REMAIN ON OR IN EMPTY CONTAINERS. HANDLE CAREFULLY TO AVOID DAMAGING CONTAINER.

STORAGE:

ROTATE STOCK REGULARLY. KEEP CONTAINER CLOSED WHEN NOT IN USE. AVOID TEMPERATURES BELOW 35 DEG. F OR ABOVE 120 DEG. F. PROTECT FROM FREEZING. STORAGE AT AMBIENT TEMPERATURES IN A DRY AREA OUT OF DIRECT SUNLIGHT IS RECOMMENDED. KEEP AWAY FROM FOOD AND DRINK. KEEP OUT OF CHILDREN'S REACH.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



EXPOSURE LIMITS: N.AV.

ENGINEERING CONTROLS: NONE REQUIRED. GENERAL ROOM VENTILATION IS ADEQUATE.

PERSONAL PROTECTION:

EYES: NONE REQUIRED WITH NORMAL USE.

HANDS: N.AP.

RESPIRATORY: N.AP.

FEET: N.AP.
BODY: N.AP.

9. PHYSICAL AND CHEMICAL PROPERTIES



COLOR: MILKY WHITE

FLASH POINT: N.AP.

ODOR: LEMON

UEL: N.AV.

LEL: N.AV.

pH CONCENTRATE: 7.1

pH @ 2500 PPM SOLUTION: N.AP.

pH @ USE DILUTION: N.AP.

EVAPORATION RATE: N.AP.

ODOR THRESHOLD: N.AP

PHYSICAL STATE: LIQUID EMULSION

VAPOR PRESSURE: N.AP

SPECIFIC GRAVITY: 0.990

VAPOR DENSITY: N.AP.

VISCOSITY: NON-VISCOUS

COEFF. OIL/WATER: N.AP.

BOILING POINT: N.AP.

WATER SOLUBILITY: DISPERSIBLE

MELTING POINT: N.AP.

OTHER: N.AP.

10. STABILITY AND REACTIVITY



STABLE: YES

CONDITIONS TO AVOID:

AVOID TEMPERATURES BELOW 35 DEG. F OR ABOVE 120 DEG. F.

MATERIALS TO AVOID:

AVOID MIXING DIRECTLY WITH ANY OTHER CLEANING PRODUCT. AVOID OXIDIZING AGENTS INCLUDING BLEACH. MIX ONLY WITH WATER.

DECOMPOSITION PRODUCTS:

FIRE OR MIXING WITH INCOMPATIBLE MATERIALS MAY PRODUCE OXIDES OF CARBON AND OTHER TOXIC OR IRRITATING FUMES.

POSSIBILITY OF HAZARDOUS REACTIONS: N.AP.

11. TOXICOLOGICAL INFORMATION



ACUTE EFFECTS: SEE SECTION 2.

CHRONIC EFFECTS:

NONE KNOWN. NO REPORTABLE CARCINOGENS, MUTAGENS, SENSITIZERS, SYNERGISTIC MATERIALS, TERATOGENS, OR REPRODUCTIVE TOXINS.

LC50/LD50: ORAL LD50 ESTIMATED TO BE GREATER THAN 5000 MG/KG.

TARGET ORGANS: NONE KNOWN.

OTHER TOXIC EFFECTS: NONE KNOWN.

12. ECOLOGICAL INFORMATION



NOT AVAILABLE.

13. DISPOSAL CONSIDERATIONS



DISPOSAL METHOD:

COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS. CONSULT STATE AND LOCAL AUTHORITIES FOR RESTRICTIONS ON DISPOSAL OF CHEMICAL WASTE. MANAGE CHEMICAL WASTES THROUGH AN APPROVED WASTE TREATMENT FACILITY. DO NOT REUSE EMPTY CONTAINER. RINSE EMPTY CONTAINER THOROUGHLY WITH WATER BEFORE DISCARDING CONTAINER IN ACCORDANCE WITH CURRENT LOCAL COMMUNITY CODES. PLEASE RECYCLE EMPTY CONTAINER WHENEVER POSSIBLE.

14. TRANSPORT INFORMATION



DOT/TDG: NOT REGULATED

DOT RQ: N.AP.

DOT ERG #: N.AP.

15. REGULATORY INFORMATION



EPA CERCLA RQ: N.AP.

EPA REGISTERED: NO

OSHA HAZARDOUS: NO

PHOSPHORUS CONTENT: 0.00%

PROPOSITION 65: N.AP.

SARA 311/312 HAZARDS: N.AP.

SARA 313 CHEMICALS: DIETHYLENE GLYCOL MONOETHYL ETHER

STATE RIGHT TO KNOW: SEE SECTION 3 FOR STATE RTK CHEMICAL NAMES.

TSCA INVENTORY STATUS: ALL COMPONENTS ARE LISTED ON THE INVENTORY.

VOC: 1.10% CALCULATION METHOD USED IS BASED ON CALIFORNIA ARE STANDARD.

16. OTHER INFORMATION



NFPA RATING:

HEALTH 0
FLAMMABILITY 0
REACTIVITY 0
SPECIAL HAZARD N.AP.

HMIS RATING:

HEALTH 0
FLAMMABILITY 0
REACTIVITY 0
PERSONAL PROTECTION SEE 8.0

N.AV. = NOT AVAILABLE

N.AP. = NOT APPLICABLE

PREPARED BY: HEALTH AND SAFETY

NOTICE TO READER:

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MSDS

Common Name: TOUGH GUY TILE & GROUT RESTROOM CLEANER-GALLON**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 1/18/2010**MSDS Format:** No Format Specified**Grainger Item Number(s):** 5RVU0**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

MSDS: 522_022310

SECTION I - PRODUCT IDENTIFICATION



PRODUCT NAME: TOUGH GUY TILE & GROUT RESTROOM CLEANER-GALLON

PRODUCT CODE NUMBER: 522

PRODUCT USE: CLEANER

WHMIS CLASS: CLASS D - DIVISION 2B

DOT CLASSIFICATION: NOT REGULATED AS DANGEROUS GOODS

TDG CLASSIFICATION: NOT REGULATED AS DANGEROUS GOODS

MANUFACTURER/SUPPLIER:
W.W. GRAINGER, INC.
100 GRAINGER PARKWAY
LAKE FOREST, IL 60045

GENERAL ASSISTANCE: 800-323-0620

EMERGENCY TELEPHONE: (800) 535-5053

HMIS/NFPA:

HEALTH 1
FLAMMABILITY 0
PHYSICAL HAZARD 0
PERSONAL PROTECTION B

LEGEND:

SEVERE 4
SERIOUS 3
MODERATE 2
SLIGHT 1
MINIMAL 0

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENT(S)	CAS#	WT%	OSHA PELS
CITRIC ACID	77-92-9	5-10	10 MG/M3-TWA
ALCOHOLS, C12-15, ETHOXYLATED	68131-39-5	1-5	NOT ESTABLISHED
ALCOHOLS, C9-11, ETHOXYLATED	68439-46-3	1-5	NOT ESTABLISHED
AMIDES, COCO, N-(3-(DIMETHYLAMINO) PROPYL)), N-OXIDES	68155-09-9	0.5-1.5	NOT ESTABLISHED

INGREDIENT(S)	ACGIH-TLV	LC50	ORAL LD50
CITRIC ACID	10 MG/M3-TWA	NOT AVAILABLE	5040 MG/KG MOUSE 3000 MG/KG RAT
ALCOHOLS, C12-15, ETHOXYLATED	NOT ESTABLISHED	5 MG/L RAT	2000 MG/KG RAT
ALCOHOLS, C9-11, ETHOXYLATED	NOT ESTABLISHED	NOT AVAILABLE	1200 MG/KG RAT
AMIDES, COCO, N-(3-(DIMETHYLAMINO) PROPYL)), N-OXIDES	NOT ESTABLISHED	NOT AVAILABLE	6500 MG/KG RAT

SECTION III - PHYSICAL CHARACTERISTICS

BOILING POINT: 100 DEG. C

FREEZING POINT: 0 DEG. C

VAPOR PRESSURE: SAME AS WATER

VAPOR DENSITY: SAME AS WATER

SOLUBILITY IN WATER: COMPLETE

PHYSICAL STATE: LIQUID

APPEARANCE: GREEN LIQUID

ODOR: CHARACTERISTIC

pH (USE SOLUTION): 2.3 - 4.0

SPECIFIC GRAVITY: 1.05 - 1.06 @ 25 DEG. C (77 DEG. F) (H₂O = 1)

COEFFICIENT OF WATER/OIL DISTRIBUTION: NOT AVAILABLE

% VOLATILE: 80-85%

EVAPORATION RATE: 1 (H₂O = 1)

pH: 2 - 3

VISCOSITY: SAME AS WATER

ODOR THRESHOLD: LOW ODOR

ADDED FRAGRANCE: NONE

SECTION IV - FIRE AND EXPLOSION HAZARD DATA



FLAMMABILITY: NOT FLAMMABLE BY WHIMIS/OSHA CRITERIA

FLASH POINT: >100.00 DEG. C (>212 DEG. F)

LEL: NOT AVAILABLE

UEL: NOT AVAILABLE

HAZARDOUS COMBUSTION PRODUCTS:

MAY INCLUDE AND ARE NOT LIMITED TO: OXIDES OF CARBON.

AUTOIGNITION TEMPERATURE: NOT AVAILABLE

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT: NOT AVAILABLE

SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE

MEANS OF EXTINCTION: CARBON DIOXIDE. WATER SPRAY. DRY CHEMICAL. FOAM

SPECIAL FIRE HAZARDS:

FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS.

SECTION V - REACTIVITY DATA



CONDITIONS FOR CHEMICAL INSTABILITY: STABLE.

INCOMPATIBLE MATERIALS:

STRONG OXIDIZING AGENTS. CAUSTICS. REDUCING AGENTS.

REACTIVITY, AND UNDER WHAT CONDITIONS: DO NOT MIX WITH OTHER CHEMICALS.

HAZARDOUS DECOMPOSITION PRODUCTS:

MAY INCLUDE AND ARE NOT LIMITED TO: OXIDES OF CARBON.

SECTION VI - TOXICOLOGICAL PROPERTIES



ROUTE OF ENTRY: EYE, SKIN CONTACT, INHALATION, INGESTION.

EFFECTS OF ACTIVE EXPOSURE:

EYE: MAY CAUSE IRRITATION.

SKIN: MAY CAUSE IRRITATION.

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION.

INGESTION: MAY CAUSE STOMACH DISTRESS, NAUSEA OR VOMITING.

EFFECTS OF CHRONIC EXPOSURE:

SKIN:

PROLONGED OR REPEATED EXPOSURE CAN CAUSE DRYING, DEFATTING AND DERMATITIS.

IRRITANCY: HAZARDOUS BY WHMIS/OSHA CRITERIA.

RESPIRATORY TRACT SENSITIZATION: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA.

CARCINOGENICITY: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA.

TERATOGENICITY: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA.

MUTAGENICITY: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA.

REPRODUCTIVE EFFECTS: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA.

SYNERGISTIC MATERIALS: NOT AVAILABLE

SECTION VII - PREVENTATIVE MEASURES



GLOVES: RUBBER GLOVES. CONFIRM WITH A REPUTABLE SUPPLIER FIRST.

EYE PROTECTION: SAFETY GLASSES

RESPIRATORY PROTECTION:

NOT NORMALLY REQUIRED IF GOOD VENTILATION IS MAINTAINED.

OTHER PROTECTIVE EQUIPMENT: AS REQUIRED BY EMPLOYER CODE.

ENGINEERING CONTROLS: GENERAL VENTILATION NORMALLY ADEQUATE.

LEAK AND SPILL PROCEDURE:

BEFORE ATTEMPTING CLEAN UP, REFER TO HAZARD DATA GIVEN ABOVE. SMALL SPILLS MAY BE ABSORBED WITH NON-REACTIVE ABSORBENT AND PLACED IN SUITABLE, COVERED, LABELED CONTAINERS. PREVENT LARGE SPILLS FROM ENTERING SEWERS OR WATERWAYS. CONTACT EMERGENCY SERVICES AND SUPPLIER FOR ADVICE.

WASTE DISPOSAL:

REVIEW FEDERAL, STATE/PROVINCIAL, AND LOCAL GOVERNMENT REQUIREMENTS PRIOR TO DISPOSAL.

HANDLING REQUIREMENTS:

USE GOOD INDUSTRIAL HYGIENE PRACTICES IN HANDLING THIS MATERIAL. WASH HANDS BEFORE BREAKS AND IMMEDIATELY AFTER HANDLING THE PRODUCT.

STORAGE REQUIREMENTS:

KEEP OUT OF REACH OF CHILDREN. STORE IN A CLOSED CONTAINER AWAY FROM INCOMPATIBLE MATERIALS, KEEP IN A DRY, COOL PLACE. AVOID STORAGE UNDER DIRECT SUNLIGHT.

**SECTION VIII - FIRST AID****EYE:**

FLUSH WITH COOL WATER. REMOVE CONTACT LENSES, IF APPLICABLE, AND CONTINUE FLUSHING. OBTAIN MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN:

FLUSH WITH COOL WATER. WASH WITH SOAP AND WATER. OBTAIN MEDICAL ATTENTION OF IRRITATION PERSISTS.

INHALATION:

IF SYMPTOMS DEVELOP MOVE VICTIM TO FRESH AIR. IF SYMPTOMS PERSIST OBTAIN MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER AND THEN DRINK ONE OR TWO GLASSES OF WATER. OBTAIN MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH IF VICTIM IS UNCONSCIOUS, OR IF CONVULSING.

SECTION IX - PREPARATION INFORMATION

EFFECTIVE DATE: 18-JAN-2010

EXPIRY DATE: 18-JAN-2013

ISSUE DATE: 18-JAN-2010

PREPARED BY: CLAIRE MANUFACTURING

INFORMATION CONTAINED HEREIN WAS OBTAINED FROM SOURCES CONSIDERED TECHNICALLY ACCURATE AND RELIABLE. WHILE EVERY EFFORT HAS BEEN MADE TO ENSURE FULL DISCLOSURE OF PRODUCT HAZARDS, IN SOME CASES DATA IS NOT AVAILABLE AND IS SO STATED. SINCE CONDITIONS OF ACTUAL PRODUCT USE ARE BEYOND CONTROL OF THE SUPPLIER, IT IS ASSUMED THAT THE USERS OF THIS MATERIAL HAVE BEEN FULLY TRAINED ACCORDING TO THE REQUIREMENTS OF ALL APPLICABLE LEGISLATION AND REGULATORY INSTRUMENTS. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE AND SUPPLIER WILL NOT BE LIABLE FOR ANY LOSSES, INJURIES OR CONSEQUENTIAL DAMAGES WHICH MAY RESULT FROM THE USE OF OR RELIANCE ON ANY INFORMATION CONTAINED IN THIS DOCUMENT.

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MSDS

Common Name: READY TO USE LIQUID ODOR COUNTERACTANT**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 10/18/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2CYE6**Manufacturer Model Number(s):**

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TOUGH GUY

MATERIAL SAFETY DATA SHEET

READY TO USE LIQUID ODOR COUNTERACTANT

VERSION NUMBER: 1

PREPARATION DATE: 2007-10-18

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: READY TO USE LIQUID ODOR COUNTERACTANT

MSDS #: MS0600436

PRODUCT CODE: 2CYE6

RECOMMENDED USE: ODOR CONTROL.

MANUFACTURER, IMPORTER, SUPPLIER:

MANUFACTURED FOR:
W.W. GRAINGER, INC.
100 GRAINGER PARKWAY
LAKE FOREST, IL 60045-5201

PHONE: 1-847-535-1000

TECHNICAL SERVICE: 1-847-535-5400

EMERGENCY TELEPHONE NUMBER: 1-800-983-4582

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

CAUTION

CAUSES EYE IRRITATION

MAY BE MILDLY IRRITATING TO SKIN

COMBUSTIBLE LIQUID AND VAPOR

PRINCIPLE ROUTES OF EXPOSURE:

EYE CONTACT

SKIN CONTACT

INHALATION

EYE CONTACT: MODERATELY IRRITATING TO THE EYES

SKIN CONTACT: MAY BE MILDLY IRRITATING TO SKIN

INHALATION: NONE KNOWN

INGESTION: MAY CAUSE IRRITATION TO MOUTH, THROAT AND STOMACH

3. COMPOSITION/INFORMATION ON INGREDIENTS



HAZARDOUS COMPONENTS:

INGREDIENT(S)	CAS #	WEIGHT %
DIETHYLENE GLYCOL MONOETHYL ETHER	111-90-0	10 - 30%

HAZARDOUS COMPONENTS:

INGREDIENT(S)	LD50 ORAL - RAT (MG/KG)	LD50 DERMAL - RABBIT	LC50 INHALATION - RAT
DIETHYLENE GLYCOL MONOETHYL ETHER	5500	NOT AVAILABLE	5.24 G/M3

4. FIRST AID MEASURES



EYE CONTACT:

FLUSH IMMEDIATELY WITH PLENTY OF WATER

IF IRRITATION PERSISTS, GET MEDICAL ATTENTION

SKIN CONTACT:

FLUSH IMMEDIATELY WITH PLENTY OF WATER

IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION

INHALATION: NO SPECIFIC FIRST AID MEASURES ARE REQUIRED

INGESTION: IF SWALLOWED, GIVE A CUPFUL OF WATER OR MILK

AGGRAVATED MEDICAL CONDITIONS: NONE KNOWN

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:

USE DRY CHEMICAL, CO2, WATER SPRAY OR "ALCOHOL" FOAM

SPECIFIC HAZARDS:

ALTHOUGH THIS PRODUCT HAS A FLASH POINT BELOW 200 DEG. F, IT IS AN AQUEOUS SOLUTION CONTAINING AN ALCOHOL AND DOES NOT SUSTAIN COMBUSTION

UNUSUAL HAZARDS: NONE KNOWN

SPECIFIC METHODS: NO SPECIAL METHODS REQUIRED

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:

NO INFORMATION AVAILABLE

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8.)

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

CLEAN-UP METHODS - LARGE SPILLAGE

PREVENT PRODUCT FROM ENTERING DRAINS

SOAK UP WITH INERT ABSORBENT MATERIAL

SWEEP UP AND SHOVEL INTO SUITABLE CONTAINERS FOR DISPOSAL

USE A WATER RINSE FOR FINAL CLEAN-UP

7. HANDLING AND STORAGE



HANDLING:

AVOID CONTACT WITH SKIN, EYES AND CLOTHING

WASH THOROUGHLY AFTER HANDLING

COMBUSTIBLE LIQUID AND VAPOR

KEEP AWAY FROM OPEN FLAMES, HOT SURFACES AND SOURCES OF IGNITION

USE ONLY IN WELL-VENTILATED AREAS

FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

STORAGE:

PROTECT FROM FREEZING

KEEP TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE

KEEP OUT OF REACH OF CHILDREN



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES TO REDUCE EXPOSURE:

NO SPECIAL VENTILATION REQUIREMENTS

GENERAL ROOM VENTILATION IS ADEQUATE

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

HAND PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

SKIN AND BODY PROTECTION:

NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

RESPIRATORY PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

HYGIENE MEASURES:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE

PERSONAL PROTECTIVE EQUIPMENT: NONE

9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID

APPEARANCE: AQUEOUS SOLUTION

SPECIFIC GRAVITY: 1.005

pH: 7

DILUTION pH: NO INFORMATION AVAILABLE.

ELEMENTAL PHOSPHORUS: 0% P

DENSITY: 8.39 LBS/GAL

BULK DENSITY: NO INFORMATION AVAILABLE

VAPOR DENSITY: NO INFORMATION AVAILABLE

EVAPORATION RATE: NO INFORMATION AVAILABLE

SOLUBILITY: COMPLETELY SOLUBLE

VOC: 0% *

VISCOSITY: NO INFORMATION AVAILABLE

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

PARTITION COEFFICIENT (n-OCTANOL/WATER): NO INFORMATION AVAILABLE

COLOR: CLEAR COLORLESS

ODOR: WOODY CITRUS

BOILING POINT/RANGE: NOT DETERMINED

MELTING POINT/RANGE: NOT DETERMINED

FLASH POINT:

183 DEG. F

83.9 DEG. C

DECOMPOSITION TEMPERATURE: NOT DETERMINED

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

* - TITLE 17, CALIFORNIA CODE OF REGULATIONS, DIVISION 3, CHAPTER 1,
SUBCHAPTER 8.5, ARTICLE 2, CONSUMER PRODUCTS, SECTIONS 94508

10. STABILITY AND REACTIVITY



STABILITY: THE PRODUCT IS STABLE

POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: NONE REASONABLY FORESEEABLE.

11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

ORAL LD50 ESTIMATED TO BE GREATER THAN 5000 MG/KG.

DERMAL LD50 ESTIMATED TO BE >2000 MG/KG.

COMPONENT INFORMATION: SEE SECTION 3

CHRONIC TOXICITY: NONE KNOWN

SPECIFIC EFFECTS:

CARCINOGENIC EFFECTS: NONE KNOWN

MUTAGENIC EFFECTS: NONE KNOWN

REPRODUCTIVE TOXICITY: NONE KNOWN

TARGET ORGAN EFFECTS: NONE KNOWN

12. ECOLOGICAL INFORMATION



ENVIRONMENTAL INFORMATION: NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS



WASTE FROM RESIDUES / UNUSED PRODUCTS:

DISPOSE OF ACCORDING TO ALL FEDERAL, STATE AND LOCAL APPLICABLE REGULATIONS

14. TRANSPORT INFORMATION



DOT/TDG:

PLEASE REFER TO THE BILL OF LADING/RECEIVING DOCUMENTS FOR UP TO DATE
SHIPPING INFORMATION

15. REGULATORY INFORMATION

INTERNATIONAL INVENTORIES:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE FOLLOWING INVENTORIES:
U.S.A. (TSCA).

U.S. REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER
CALIFORNIA'S PROPOSITION 65

SARA 311/312 HAZARD CATEGORIES:

IMMEDIATE	(X)
DELAYED	()
FIRE	()
REACTIVITY	()
SUDDEN RELEASE OF PRESSURE	()

CANADA:

WHMIS HAZARD CLASS: NOT FOR SALE IN CANADA.

STATE RIGHT TO KNOW:

INGREDIENT(S)	CAS #	NJRTK	MARTK	PARTK	RIRTK
POLYOXYETHYLENE SORBITAN MONOOLATE	9005-65-6				
DIETHYLENE GLYCOL MONOETHYL ETHER	111-90-0	X		X	
WATER	7732-18-5				

CERCLA/SARA:

INGREDIENT(S)	CAS #	WEIGHT %	CERCLA/SARA RQ (LBS)	SECTION 302 TPQ (LBS)	SECTION 313
DIETHYLENE GLYCOL MONOETHYL ETHER	111-90-0	10 - 30%			X

INGREDIENT(S)	CAA HAP	CAA ODS	CWA PRIORITY POLLUTANTS
DIETHYLENE GLYCOL MONOETHYL ETHER	X		

16. OTHER INFORMATION

HMIS:

HEALTH 2
FIRE HAZARD 1
REACTIVITY 0

NFPA:

HEALTH 2
FLAMMABILITY 1
INSTABILITY 0

REASON FOR REVISION: NOT APPLICABLE

PREPARED BY: NAPRAC

ADDITIONAL ADVICE: NONE

NOTICE TO READER:

THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS RESPONSIBLE TO EVALUATE ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS.

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MSDS

Common Name: LIQUID ODOR COUNTERACTANT CONCENTRATE**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 10/10/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2CYE7**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

TOUGH GUY

LIQUID ODOR COUNTERACTANT CONCENTRATE

VERSION NUMBER: 1

PREPARATION DATE: 2007-10-10

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: LIQUID ODOR COUNTERACTANT CONCENTRATE

MSDS #: MS0600442

PRODUCT CODE: 2CYE7

RECOMMENDED USE:

ODOR CONTROLLING NEUTRALIZER. THIS PRODUCT IS INTENDED TO BE DILUTED PRIOR TO USE.

MANUFACTURER, IMPORTER, SUPPLIER:

MANUFACTURED FOR:

W.W. GRAINGER, INC.

100 GRAINGER PARKWAY

LAKE FOREST, IL 60045-5201

PHONE: 1-847-535-1000

TECHNICAL SERVICE: 1-847-535-5400

EMERGENCY TELEPHONE NUMBER: 1-800-983-4582

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

WARNING

CAUSES EYE AND SKIN IRRITATION

COMBUSTIBLE LIQUID AND VAPOR

PRINCIPLE ROUTES OF EXPOSURE:

EYE CONTACT

SKIN CONTACT

INHALATION

EYE CONTACT: SEVERE EYE IRRITATION

SKIN CONTACT: MODERATELY IRRITATING TO THE SKIN

INHALATION: MAY BE IRRITATING TO NOSE, THROAT, AND RESPIRATORY TRACT

INGESTION: MAY CAUSE IRRITATION TO MOUTH, THROAT AND STOMACH

3. COMPOSITION/INFORMATION ON INGREDIENTS



HAZARDOUS COMPONENTS:

INGREDIENT(S)	CAS #	WEIGHT %
n-ALKYL (60% C14, 30% C16, 5% C12, 5% C18)- DIMETHYL BENZYL AMMONIUM CHLORIDE	68391-01-5	0.1 - 1.5%
ALCOHOL ETHOXYLATES	68439-46-3	1 - 5%
ISOPROPYL ALCOHOL	67-63-0	1 - 5%

HAZARDOUS COMPONENTS:

INGREDIENT(S)	LD50 ORAL - RAT (MG/KG)	LD50 DERMAL - RABBIT	LC50 INHALATION - RAT
n-ALKYL (60% C14, 30% C16, 5% C12, 5% C18) DIMETHYL BENZYL AMMONIUM CHLORIDE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
ALCOHOL ETHOXYLATES	1400	NOT AVAILABLE	NOT AVAILABLE
ISOPROPYL ALCOHOL	4396	12870 MG/KG	72.6 MG/L (4 H)

4. FIRST AID MEASURES



EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES, KEEPING EYELIDS OPEN

GET MEDICAL ATTENTION

SKIN CONTACT:

FLUSH IMMEDIATELY WITH PLENTY OF WATER
IF IRRITATION PERSISTS, GET MEDICAL ATTENTION

INHALATION:

IF BREATHING IS AFFECTED, REMOVE TO FRESH AIR
GET MEDICAL ATTENTION

INGESTION:

GIVE A CUPFUL OF WATER OR MILK
THEN IMMEDIATELY CONTACT A PHYSICIAN OR POISON CENTER
DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON

AGGRAVATED MEDICAL CONDITIONS:

PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTABLE TO IRRITATING EFFECTS

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:

DRY CHEMICAL, WATER SPRAY, FOAM, CARBON DIOXIDE

SPECIFIC HAZARDS:

ALTHOUGH THIS PRODUCT HAS A FLASH POINT BELOW 200 DEG. F, IT IS AN AQUEOUS SOLUTION CONTAINING AN ALCOHOL AND DOES NOT SUSTAIN COMBUSTION

UNUSUAL HAZARDS: NONE KNOWN

SPECIFIC METHODS: NO SPECIAL METHODS REQUIRED

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:

NO INFORMATION AVAILABLE

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS: USE PERSONAL PROTECTIVE EQUIPMENT

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

CLEAN-UP METHODS - LARGE SPILLAGE
ELIMINATE ALL IGNITION SOURCES
SOAK UP WITH INERT ABSORBENT MATERIAL
SWEEP UP AND SHOVEL INTO SUITABLE CONTAINERS FOR DISPOSAL
USE A WATER RINSE FOR FINAL CLEAN-UP

7. HANDLING AND STORAGE



HANDLING:

AVOID CONTACT WITH SKIN, EYES AND CLOTHING
DO NOT TASTE OR SWALLOW
REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE
WASH THOROUGHLY AFTER HANDLING
PRODUCT RESIDUE MAY REMAIN ON/IN EMPTY CONTAINERS
ALL PRECAUTIONS FOR HANDLING THE PRODUCT MUST BE USED IN HANDLING THE EMPTY CONTAINER AND RESIDUE
COMBUSTIBLE LIQUID AND VAPOR
KEEP AWAY FROM OPEN FLAMES, HOT SURFACES AND SOURCES OF IGNITION
USE ONLY IN WELL-VENTILATED AREAS

FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

STORAGE:

PROTECT FROM FREEZING
STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM HEAT OR OPEN FLAME
KEEP OUT OF REACH OF CHILDREN

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



ENGINEERING MEASURES TO REDUCE EXPOSURE:

NO SPECIAL VENTILATION REQUIREMENTS
GENERAL ROOM VENTILATION IS ADEQUATE

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: CHEMICAL-SPLASH GOGGLES

HAND PROTECTION: CHEMICAL-RESISTANT GLOVES

SKIN AND BODY PROTECTION: NO SPECIAL PROTECTIVE CLOTHING IS REQUIRED

RESPIRATORY PROTECTION: NO SPECIAL PROTECTIVE CLOTHING IS REQUIRED

HYGIENE MEASURES:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE

PERSONAL PROTECTIVE EQUIPMENT:

CHEMICAL GOGGLES
GLOVES

INGREDIENT(S)	CAS #	ACGIH	OSHA	MEXICO
ISOPROPYL	67-63-0	400 PPM (STEL)	400 PPM (TWA)	500 PPM (STEL)
ALCOHOL		200 PPM (TWA)	980 MG/M3 (TWA)	1225 MG/M3 (STEL) 400 PPM (TWA) 980 MG/M3 (TWA)

9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID

APPEARANCE: LIQUID

SPECIFIC GRAVITY: 0.996

pH: 5.5

DILUTION pH: NO INFORMATION AVAILABLE. 1:128

ELEMENTAL PHOSPHORUS: 0% P

DENSITY: 8.30 LBS/GAL

BULK DENSITY: NO INFORMATION AVAILABLE

VAPOR DENSITY: NO INFORMATION AVAILABLE

EVAPORATION RATE: NO INFORMATION AVAILABLE

SOLUBILITY: COMPLETELY SOLUBLE

VOC: 4.0% *

VISCOSITY: NO INFORMATION AVAILABLE

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

PARTITION COEFFICIENT (n-OCTANOL/WATER): NO INFORMATION AVAILABLE

COLOR: YELLOW

ODOR: FLORAL

BOILING POINT/RANGE: NOT DETERMINED

MELTING POINT/RANGE: NOT DETERMINED

FLASH POINT:

145 DEG. F

62.8 DEG. C

DECOMPOSITION TEMPERATURE: NOT DETERMINED

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

* - TITLE 17, CALIFORNIA CODE OF REGULATIONS, DIVISION 3, CHAPTER 1,
SUBCHAPTER 8.5, ARTICLE 2, CONSUMER PRODUCTS, SECTIONS 94508

10. STABILITY AND REACTIVITY



STABILITY: THE PRODUCT IS STABLE

POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: NONE REASONABLY FORESEEABLE.

MATERIALS TO AVOID: OXIDIZING AGENTS

CONDITIONS TO AVOID:

KEEP AWAY FROM HEAT

KEEP AWAY FROM OPEN FLAMES, HOT SURFACES AND SOURCES OF IGNITION

11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

ORAL LD50 ESTIMATED TO BE GREATER THAN 5000 MG/KG.

DERMAL LD50 ESTIMATED TO BE >2000 MG/KG.

COMPONENT INFORMATION: SEE SECTION 3

CHRONIC TOXICITY: NONE KNOWN

SPECIFIC EFFECTS:

CARCINOGENIC EFFECTS: NONE KNOWN

MUTAGENIC EFFECTS: NONE KNOWN

REPRODUCTIVE TOXICITY: NONE KNOWN

TARGET ORGAN EFFECTS: NONE KNOWN

HAZARDOUS COMPONENTS:

INGREDIENT(S)	CAS #	NTP	IARC	OSHA
ISOPROPYL ALCOHOL	67-63-0		3	X

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL INFORMATION: NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS

WASTE FROM RESIDUES / UNUSED PRODUCTS:

DISPOSE OF ACCORDING TO ALL FEDERAL, STATE AND LOCAL APPLICABLE REGULATIONS

14. TRANSPORT INFORMATION

DOT/TDG:

PLEASE REFER TO THE BILL OF LADING/RECEIVING DOCUMENTS FOR UP TO DATE
SHIPPING INFORMATION**15. REGULATORY INFORMATION**

INTERNATIONAL INVENTORIES:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE FOLLOWING INVENTORIES:
U.S.A. (TSCA).

U.S. REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER
CALIFORNIA'S PROPOSITION 65

SARA 311/312 HAZARD CATEGORIES:

IMMEDIATE (X)
DELAYED ()
FIRE (X)
REACTIVITY ()
SUDDEN RELEASE OF PRESSURE ()

CANADA:

WHMIS HAZARD CLASS: NOT FOR SALE IN CANADA.

STATE RIGHT TO KNOW:

INGREDIENT(S)	CAS #	NJRTK	MARTK	PARTK	RIRTK
WATER	7732-18-5				
ISOPROPYL ALCOHOL	67-63-0	X	X	X	X
ALCOHOL ETHOXYLATES	68439-46-3				
FRAGRANCE	TS*				

CERCLA/ SARA:

INGREDIENT(S)	CAS #	WEIGHT %	CERCLA/SARA RQ (LBS)	SECTION 302 TPQ (LBS)	SECTION 313
ISOPROPYL ALCOHOL	67-63-0	1 - 5%			X

16. OTHER INFORMATION

HMIS:

HEALTH 2
FIRE HAZARD 1
REACTIVITY 0

NFPA:

HEALTH 2
FLAMMABILITY 1
INSTABILITY 0

REASON FOR REVISION: NOT APPLICABLE

PREPARED BY: NAPRAC

ADDITIONAL ADVICE: NONE

NOTICE TO READER:

THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS RESPONSIBLE TO EVALUATE ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS.

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MSDS

Common Name: BACTERIAL DRAIN MAINTAINER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 8/28/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2CYE8, 2CYE9**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

BACTERIAL DRAIN MAINTAINER

VERSION NUMBER: 1

PREPARATION DATE: 8/28/2007

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: BACTERIAL DRAIN MAINTAINER

MSDS #:

PRODUCT CODE: 2CYE8, 2CYE9

RECOMMENDED USE: SPECIALTY CLEANER.

MANUFACTURER, IMPORTER, SUPPLIER:

MANUFACTURED FOR:
W.W. GRAINGER, INC.

100 GRAINGER PARKWAY
LAKE FOREST, IL 60045-5201

PHONE: 1-847-535-1000

TECHNICAL SERVICE: 1-847-535-5400

EMERGENCY TELEPHONE NUMBER: 1-800-983-4582

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

CAUTION:

MAY BE MILDLY IRRITATING TO EYES

PRINCIPLE ROUTES OF EXPOSURE:

EYE CONTACT

SKIN CONTACT

INHALATION

EYE CONTACT: MAY BE MILDLY IRRITATING TO EYES

SKIN CONTACT: NONE KNOWN

INHALATION: NONE KNOWN

INGESTION: NONE KNOWN

3. COMPOSITION/INFORMATION ON INGREDIENTS



HAZARDOUS COMPONENTS:

INGREDIENT(S)	CAS #	WEIGHT %
SODIUM LAURYL SULFATE	151-21-3	0.1 - 1.5%
BACTERIAL CULTURES	TS*	0.1 - 1.5%

HAZARDOUS COMPONENTS:

INGREDIENT(S)	LD50 ORAL - RAT	LD50 DERMAL - RABBIT	LC50 INHALATION - RAT
SODIUM LAURYL SULFATE	=1288 MG/KG	NOT AVAILABLE	>3900 MG/M3 (1 H)
BACTERIAL CULTURES	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE

4. FIRST AID MEASURES



EYE CONTACT:

FLUSH IMMEDIATELY WITH PLENTY OF WATER
IF IRRITATION DEVELOPS GET MEDICAL ATTENTION

SKIN CONTACT: RINSE WITH PLENTY OF WATER

INHALATION: NO SPECIFIC FIRST AID MEASURES ARE REQUIRED

INGESTION: NO SPECIFIC FIRST AID MEASURES ARE REQUIRED

AGGRAVATED MEDICAL CONDITIONS: NONE KNOWN

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA: NOT APPLICABLE

SPECIFIC HAZARDS: NOT APPLICABLE

UNUSUAL HAZARDS: NONE KNOWN

SPECIFIC METHODS: NO SPECIAL METHODS REQUIRED

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:
AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND,
MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:
NO INFORMATION AVAILABLE

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS: USE PERSONAL PROTECTIVE EQUIPMENT

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS: NO INFORMATION AVAILABLE

7. HANDLING AND STORAGE



HANDLING:
CONTAINS BACTERIAL CULTURES. PERSONS WHO ARE IMMUNO-COMPROMISED SHOULD
AVOID CONTACT WITH THE PRODUCT
DO NOT APPLY TO FOOD CONTACT SURFACES
DO NOT SPRAY PRODUCT INTO THE AIR
AVOID CONTACT WITH EYES, OPEN CUTS OR SORES. WASH THOROUGHLY AFTER
HANDLING. AVOID USE AND CONTACT OF PRODUCT WITH IMMUNECOMPROMISED
INDIVIDUALS. DO NOT REUSE THIS PACKAGING FOR STORING BEVERAGES OR LIQUIDS.
CONTAINS: BACTERIAL CULTURES AND SURFACTANTS

FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

STORAGE:
PROTECT FROM FREEZING
KEEP TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE
KEEP OUT OF THE REACH OF CHILDREN

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



ENGINEERING MEASURES TO REDUCE EXPOSURE:
NO SPECIAL VENTILATION REQUIREMENTS
GENERAL ROOM VENTILATION IS ADEQUATE

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

HAND PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

SKIN AND BODY PROTECTION:
NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

RESPIRATORY PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

HYGIENE MEASURES:
HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE

PERSONAL PROTECTIVE EQUIPMENT: NONE

9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID

APPEARANCE: AQUEOUS SOLUTION

COLOR: WHITE

ODOR: FLORAL

SPECIFIC GRAVITY: 1.0

pH: 7.5

DILUTION pH: NO INFORMATION AVAILABLE.

DENSITY: 8.33 LBS/GAL

BULK DENSITY: NO INFORMATION AVAILABLE

VAPOR DENSITY: NO INFORMATION AVAILABLE

EVAPORATION RATE: NO INFORMATION AVAILABLE

SOLUBILITY: SOLUBLE

VOC: 0% *

VISCOSITY: NO INFORMATION AVAILABLE

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

PARTITION COEFFICIENT (n-OCTANOL/WATER): NO INFORMATION AVAILABLE

BOILING POINT/RANGE: NOT DETERMINED

MELTING POINT/RANGE: NOT DETERMINED

FLASH POINT:
>200 (DEG. F)
>93.3 (DEG. C)

DECOMPOSITION TEMPERATURE: NOT DETERMINED

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

ELEMENTAL PHOSPHORUS: 0 %P

10. STABILITY AND REACTIVITY



STABILITY: THE PRODUCT IS STABLE

POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: NONE REASONABLY FORESEEABLE.

11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

ORAL LD50 ESTIMATED TO BE GREATER THAN 5000 MG/KG

DERMAL LD50 ESTIMATED TO BE >2000 MG/KG

COMPONENT INFORMATION: SEE SECTION 3

CHRONIC TOXICITY: NONE KNOWN

SPECIFIC EFFECTS:

CARCINOGENIC EFFECTS: NONE KNOWN

MUTAGENIC EFFECTS: NONE KNOWN

REPRODUCTIVE TOXICITY: NONE KNOWN

TARGET ORGAN EFFECTS: NONE KNOWN

12. ECOLOGICAL INFORMATION



ENVIRONMENTAL INFORMATION: NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS



WASTE FROM RESIDUES / UNUSED PRODUCTS:

DISPOSE OF ACCORDING TO ALL FEDERAL, STATE AND LOCAL APPLICABLE REGULATIONS

14. TRANSPORT INFORMATION



DOT/TDG:

PLEASE REFER TO THE BILL OF LADING/RECEIVING DOCUMENTS FOR UP TO DATE SHIPPING INFORMATION

15. REGULATORY INFORMATION



INTERNATIONAL INVENTORIES:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE FOLLOWING INVENTORIES:

U.S.A. (TSCA).

U.S. REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER CALIFORNIA'S PROPOSITION 65

SARA 311/312 HAZARD CATEGORIES:

IMMEDIATE ()
FIRE ()
REACTIVITY ()
SUDDEN RELEASE OF PRESSURE ()

CANADA:

WHMIS HAZARD CLASS: NOT FOR SALE IN CANADA.

STATE RIGHT TO KNOW:

INGREDIENT(S)	CAS #	NJRTK	MARTK	PARTK	RIRTK
WATER	7732-18-5				
SODIUM LAURYL SULFATE	151-21-3				
BACTERIAL CULTURES	TS*				

CERCLA/ SARA:

16. OTHER INFORMATION

HMIS:

HEALTH 1
FIRE HAZARD 0
REACTIVITY 0

NFPA:

HEALTH 1
FLAMMABILITY 0
INSTABILITY 0

REASON FOR REVISION: NOT APPLICABLE

PREPARED BY: NAPRAC

ADDITIONAL ADVICE: NONE

NOTICE TO READER:

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MSDS

Common Name: ALKALINE DRAIN CLOG REMOVER**Manufacturer:** PRIME SOURCE**MSDS Revision Date:** 10/15/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2CYF1**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

TOUGH GUY

ALKALINE DRAIN CLOG REMOVER

VERSION NUMBER: 1

PREPARATION DATE: 2007-10-15

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: ALKALINE DRAIN CLOG REMOVER

MSDS #: MS0600434

PRODUCT CODE: 2CYF1

RECOMMENDED USE: SPECIALTY CLEANER.

MANUFACTURER, IMPORTER, SUPPLIER:
PRIME SOURCE

ST. LOUIS, MO 63141

EMERGENCY TELEPHONE NUMBER: 1-800-983-4582

IN CASE OF SPILL EMERGENCIES CALL CHEMTREC: 1-800-424-9300

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

DANGER

POISON

CORROSIVE

CAUSES EYE AND SKIN BURNS

HARMFUL OR FATAL IF SWALLOWED

DO NOT MIX WITH ACIDS, TOILET BOWL CLEANERS, AMMONIA, OR ANY OTHER CHEMICAL

PRINCIPLE ROUTES OF EXPOSURE:

EYE CONTACT

SKIN CONTACT

INHALATION

EYE CONTACT:

CORROSIVE

CAUSES PERMANENT EYE DAMAGE, INCLUDING BLINDNESS

SKIN CONTACT:

CORROSIVE

MAY CAUSE PERMANENT DAMAGE

INHALATION:

MAY CAUSE IRRITATION AND CORROSIVE EFFECTS TO NOSE, THROAT AND RESPIRATORY TRACT

INGESTION:

CORROSIVE

MAY CAUSE BURNS TO MOUTH, THROAT AND STOMACH

3. COMPOSITION/INFORMATION ON INGREDIENTS



HAZARDOUS COMPONENTS:

INGREDIENT(S)	CAS #	WEIGHT %
POTASSIUM HYDROXIDE	1310-58-3	10 - 30%
SODIUM HYDROXIDE	1310-73-2	10 - 30%
SODIUM	7440-23-5	0.1 - 1.5%
SODIUM CHLORATE	7775-09-9	0.1 - 1.5%

HAZARDOUS COMPONENTS:

INGREDIENT(S)	LD50 ORAL - RAT (MG/KG)	LD50 DERMAL - RABBIT	LC50 INHALATION - RAT
POTASSIUM HYDROXIDE	275	NOT AVAILABLE	NOT AVAILABLE

SODIUM HYDROXIDE	140	1350 MG/KG	NOT AVAILABLE
SODIUM	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
SODIUM CHLORATE	1200	>10 G/KG	>28 G/M3 (1 H)

4. FIRST AID MEASURES



EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES, KEEPING EYELIDS OPEN

GET MEDICAL ATTENTION IMMEDIATELY

SKIN CONTACT:

FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES

GET MEDICAL ATTENTION IMMEDIATELY

INHALATION:

IF BREATHING IS AFFECTED, REMOVE TO FRESH AIR

GET MEDICAL ATTENTION IMMEDIATELY

INGESTION:

DO NOT INDUCE VOMITING

IMMEDIATELY DRINK ONE CUPFUL OF WATER OR MILK

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON

GET MEDICAL ATTENTION IMMEDIATELY

AGGRAVATED MEDICAL CONDITIONS:

INDIVIDUALS WITH CHRONIC RESPIRATORY DISORDERS SUCH AS ASTHMA, CHRONIC BRONCHITIS, EMPHYSEMA, ETC., MAY BE MORE SUSCEPTIBLE TO IRRITATING EFFECTS

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:

DRY CHEMICAL, WATER SPRAY, FOAM, CARBON DIOXIDE

SPECIFIC HAZARDS: NOT APPLICABLE

UNUSUAL HAZARDS: CORROSIVE MATERIAL (SEE SECTIONS 8 AND 10)

SPECIFIC METHODS: NO SPECIAL METHODS REQUIRED

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:

NO INFORMATION AVAILABLE

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS:

ENSURE ADEQUATE VENTILATION

USE PERSONAL PROTECTIVE EQUIPMENT

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION

SWEEP UP AND SHOVEL INTO SUITABLE CONTAINERS FOR DISPOSAL
KEEP IN SUITABLE AND CLOSED CONTAINERS FOR DISPOSAL
USE A WATER RINSE FOR FINAL CLEAN-UP

7. HANDLING AND STORAGE



HANDLING:

AVOID CONTACT WITH SKIN, EYES AND CLOTHING
DO NOT TASTE OR SWALLOW
AVOID BREATHING VAPORS OR MISTS
USE ONLY WITH ADEQUATE VENTILATION
REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE
WASH THOROUGHLY AFTER HANDLING
PRODUCT RESIDUE MAY REMAIN ON/IN EMPTY CONTAINERS
ALL PRECAUTIONS FOR HANDLING THE PRODUCT MUST BE USED IN HANDLING THE EMPTY CONTAINER AND RESIDUE

FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

STORAGE:

KEEP TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE
PROTECT FROM FREEZING
STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM HEAT OR OPEN FLAME
KEEP OUT OF THE REACH OF CHILDREN

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



ENGINEERING MEASURES TO REDUCE EXPOSURE:

GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS
RESPIRATORY PROTECTION IS NOT REQUIRED IF GOOD VENTILATION IS MAINTAINED

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: CHEMICAL-SPLASH GOGGLES

HAND PROTECTION:

CHEMICAL-RESISTANT GLOVES
NEOPRENE GLOVES

SKIN AND BODY PROTECTION:

PROTECTIVE FOOTWEAR
IF MAJOR EXPOSURE IS POSSIBLE, WEAR SUITABLE PROTECTIVE CLOTHING AND FOOTWEAR

RESPIRATORY PROTECTION:

IF AEROSOLS, MISTS, OR VAPORS ARE NOT ADEQUATELY CONTROLLED BY VENTILATION, USE APPROPRIATE RESPIRATORY PROTECTION TO AVOID OVER-EXPOSURE

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE

HYGIENE MEASURES:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE

PERSONAL PROTECTIVE EQUIPMENT:

CHEMICAL GOGGLES
GLOVES
BOOTS

INGREDIENT(S)	CAS #	ACGIH	OSHA	MEXICO
POTASSIUM HYDROXIDE	1310-58-3	2 MG/M3 (CEILING)		
SODIUM HYDROXIDE	1310-73-2	2 MG/M3 (CEILING)	2 MG/M3 (TWA)	2 MG/M3 (CEILING)

9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID

APPEARANCE: AQUEOUS SOLUTION

SPECIFIC GRAVITY: 1.410

pH: >13.0

DILUTION pH: NO INFORMATION AVAILABLE.

ELEMENTAL PHOSPHORUS: 0% P

DENSITY: 11.75

BULK DENSITY: NO INFORMATION AVAILABLE

VAPOR DENSITY: NO INFORMATION AVAILABLE

EVAPORATION RATE: NO INFORMATION AVAILABLE

SOLUBILITY: COMPLETELY SOLUBLE

VOC: 0% *

VISCOSITY: NO INFORMATION AVAILABLE

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

PARTITION COEFFICIENT (n-OCTANOL/WATER): NO INFORMATION AVAILABLE

COLOR: COLORLESS

ODOR: NO ODOR/ODORLESS

BOILING POINT/RANGE: NOT DETERMINED

MELTING POINT/RANGE: NOT DETERMINED

FLASH POINT:

>200 DEG. F

>93.3 DEG. C

DECOMPOSITION TEMPERATURE: NOT DETERMINED

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

* - TITLE 17, CALIFORNIA CODE OF REGULATIONS, DIVISION 3, CHAPTER 1, SUBCHAPTER 8.5, ARTICLE 2, CONSUMER PRODUCTS, SECTIONS 94508

10. STABILITY AND REACTIVITY



STABILITY: THE PRODUCT IS STABLE

POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: NONE REASONABLY FORESEEABLE.

MATERIALS TO AVOID:

DO NOT MIX WITH ANY OTHER PRODUCT OR CHEMICAL

AMMONIA

ACIDS

CONDITIONS TO AVOID:

DO NOT FREEZE

DO NOT MIX WITH ANY OTHER PRODUCT OR CHEMICAL

11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

CORROSIVE. ORAL LD50 ESTIMATED TO BE >50 AND =500 MG/KG.

DERMAL LD50 ESTIMATED TO BE >2000 MG/KG.

COMPONENT INFORMATION: SEE SECTION 3

CHRONIC TOXICITY: NONE KNOWN

SPECIFIC EFFECTS:

CARCINOGENIC EFFECTS: NONE KNOWN

MUTAGENIC EFFECTS: NONE KNOWN

REPRODUCTIVE TOXICITY: NONE KNOWN

TARGET ORGAN EFFECTS: NONE KNOWN

12. ECOLOGICAL INFORMATION



ENVIRONMENTAL INFORMATION: NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS



WASTE FROM RESIDUES / UNUSED PRODUCTS:

UNDILUTED PRODUCT IS REGULATED UNDER ENVIRONMENTAL AND TRANSPORTATION LAWS
AS A CORROSIVE WASTE

DISPOSE OF ACCORDING TO ALL FEDERAL, STATE AND LOCAL APPLICABLE REGULATIONS

RCRA HAZARD CLASS: D002

14. TRANSPORT INFORMATION



DOT/TDG:

PLEASE REFER TO THE BILL OF LADING/RECEIVING DOCUMENTS FOR UP TO DATE SHIPPING INFORMATION

15. REGULATORY INFORMATION



INTERNATIONAL INVENTORIES:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE FOLLOWING INVENTORIES:
U.S.A. (TSCA).

U.S. REGULATIONS:

CALIFORNIA PROPOSITION 65:
THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER CALIFORNIA'S PROPOSITION 65

SARA 311/312 HAZARD CATEGORIES:

IMMEDIATE	(X)
DELAYED	()
FIRE	()
REACTIVITY	(X)
SUDDEN RELEASE OF PRESSURE	()

CANADA:

WHMIS HAZARD CLASS: NOT FOR SALE IN CANADA.

STATE RIGHT TO KNOW:

INGREDIENT(S)	CAS #	NJRTK	MARTK	PARTK	RIRTK
POTASSIUM HYDROXIDE	1310-58-3	X	X	X	X
SODIUM HYDROXIDE	1310-73-2	X	X	X	X
SODIUM	7440-23-5	X	X	X	X
WATER	7732-18-5				
SODIUM CHLORATE	7775-09-9	X	X	X	X

CERCLA/SARA:

INGREDIENT(S)	CAS #	WEIGHT %	CERCLA/SARA RQ (LBS)	SECTION 302 TPQ (LBS)	SECTION 313
POTASSIUM HYDROXIDE	1310-58-3	10 - 30%	1000		
SODIUM HYDROXIDE	1310-73-2	10 - 30%	1000		
SODIUM	7440-23-5	0.1 - 1.5%	10		

16. OTHER INFORMATION



HMIS:

HEALTH	3
FIRE HAZARD	0
REACTIVITY	0

NFPA:

HEALTH 3
FLAMMABILITY 0
INSTABILITY 0

REASON FOR REVISION: NOT APPLICABLE

PREPARED BY: NAPRAC

ADDITIONAL ADVICE: NONE

NOTICE TO READER:

THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS RESPONSIBLE TO EVALUATE ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS.

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MSDS

Common Name: DOCK & DUMPSTER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 10/12/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2CYF3**Manufacturer Model Number(s):**

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TOUGH GUY

MATERIAL SAFETY DATA SHEET

DOCK & DUMPSTER

VERSION NUMBER: 1

PREPARATION DATE: 2007-10-12

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: DOCK & DUMPSTER

MSDS #: MS0600435

PRODUCT CODE: 2CYF3

RECOMMENDED USE:

CLEANING PRODUCT. THIS PRODUCT IS INTENDED TO BE DILUTED PRIOR TO USE.

MANUFACTURER, IMPORTER, SUPPLIER:

MANUFACTURED FOR:
W. W. GRAINGER, INC.
100 GRAINGER PARKWAY
LAKE FOREST, IL 60045-5201

PHONE: 1-847-535-1000

TECHNICAL SERVICE: 1-847-535-5400

EMERGENCY TELEPHONE NUMBER: 1-800-983-4582

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:
WARNING
CAUSES EYE AND SKIN IRRITATION

PRINCIPLE ROUTES OF EXPOSURE:
EYE CONTACT
SKIN CONTACT
INHALATION

EYE CONTACT: SEVERE EYE IRRITATION

SKIN CONTACT: MODERATELY IRRITATING TO THE SKIN

INHALATION: MAY BE IRRITATING TO NOSE, THROAT, AND RESPIRATORY TRACT

INGESTION: MAY CAUSE IRRITATION TO MOUTH, THROAT AND STOMACH

3. COMPOSITION/INFORMATION ON INGREDIENTS



HAZARDOUS COMPONENTS:

INGREDIENT(S)	CAS #	WEIGHT %
ALKYL POLY GLYCOSIDE	110615-47-9	1 - 5%
ALCOHOL ETHOXYLATES	68439-46-3	10 - 30%
ETHYL ALCOHOL	64-17-5	0.1 - 1.5%
BACTERIAL CULTURES	TS*	0.1 - 1.5%

HAZARDOUS COMPONENTS:

INGREDIENT(S)	LD50 ORAL - RAT (MG/KG)	LD50 DERMAL - RABBIT	LC50 INHALATION - RAT
ALKYL POLY GLYCOSIDE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
ALCOHOL ETHOXYLATES	1400	NOT AVAILABLE	NOT AVAILABLE
ETHYL ALCOHOL	1501	NOT AVAILABLE	=124.7 MG/L (4 H)
BACTERIAL CULTURES	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE



4. FIRST AID MEASURES

EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES, KEEPING EYELIDS OPEN
GET MEDICAL ATTENTION

SKIN CONTACT:

FLUSH IMMEDIATELY WITH PLENTY OF WATER
IF IRRITATION PERSISTS, GET MEDICAL ATTENTION

INHALATION:

IF BREATHING IS AFFECTED, REMOVE TO FRESH AIR
GET MEDICAL ATTENTION

INGESTION:

GIVE A CUPFUL OF WATER OR MILK
THEN IMMEDIATELY CONTACT A PHYSICIAN OR POISON CENTER
DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON

AGGRAVATED MEDICAL CONDITIONS:

PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTIBLE TO IRRITATING EFFECTS

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA: NOT APPLICABLE

SPECIFIC HAZARDS: NOT APPLICABLE

UNUSUAL HAZARDS: NONE KNOWN

SPECIFIC METHODS: NO SPECIAL METHODS REQUIRED

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:

NO INFORMATION AVAILABLE

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS: USE PERSONAL PROTECTIVE EQUIPMENT

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS: NO INFORMATION AVAILABLE

7. HANDLING AND STORAGE



HANDLING:

AVOID CONTACT WITH SKIN, EYES AND CLOTHING
DO NOT TASTE OR SWALLOW
REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE
WASH THOROUGHLY AFTER HANDLING

PRODUCT RESIDUE MAY REMAIN ON/IN EMPTY CONTAINERS
ALL PRECAUTIONS FOR HANDLING THE PRODUCT MUST BE USED IN HANDLING THE EMPTY
CONTAINER AND RESIDUE

FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

STORAGE:

PROTECT FROM FREEZING

KEEP TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE

KEEP OUT OF REACH OF CHILDREN

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



ENGINEERING MEASURES TO REDUCE EXPOSURE:

NO SPECIAL VENTILATION REQUIREMENTS

GENERAL ROOM VENTILATION IS ADEQUATE

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: CHEMICAL-SPLASH GOGGLES

HAND PROTECTION: CHEMICAL-RESISTANT GLOVES

SKIN AND BODY PROTECTION: NO SPECIAL PROTECTIVE CLOTHING IS REQUIRED

RESPIRATORY PROTECTION: NO SPECIAL PROTECTIVE CLOTHING IS REQUIRED

HYGIENE MEASURES:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE

PERSONAL PROTECTIVE EQUIPMENT:

CHEMICAL GOGGLES

GLOVES

INGREDIENT(S)	CAS #	ACGIH	OSHA	MEXICO
ETHYL ALCOHOL	64-17-5	1000 PPM (TWA)	1000 PPM (TWA) 1900 MG/M3 (TWA)	1000 PPM (TWA) 1900 MG/M3 (TWA)

9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID

APPEARANCE: AQUEOUS SOLUTION

SPECIFIC GRAVITY: 1.008

pH: 8.11

DILUTION pH: NO INFORMATION AVAILABLE.

ELEMENTAL PHOSPHORUS: 0.0% P

DENSITY: 8.42 LBS/GAL

BULK DENSITY: NO INFORMATION AVAILABLE

VAPOR DENSITY: NO INFORMATION AVAILABLE

EVAPORATION RATE: NO INFORMATION AVAILABLE

SOLUBILITY: COMPLETELY SOLUBLE

VOC: 0% *

VISCOSITY: NO INFORMATION AVAILABLE

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

PARTITION COEFFICIENT (n-OCTANOL/WATER): NO INFORMATION AVAILABLE

COLOR: GREEN

ODOR: CITRUS

BOILING POINT/RANGE: NOT DETERMINED

MELTING POINT/RANGE: NOT DETERMINED

FLASH POINT:

>200 DEG. F

>93.3 DEG. C

DECOMPOSITION TEMPERATURE: NOT DETERMINED

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

* - TITLE 17, CALIFORNIA CODE OF REGULATIONS, DIVISION 3, CHAPTER 1,
SUBCHAPTER 8.5, ARTICLE 2, CONSUMER PRODUCTS, SECTIONS 94508

10. STABILITY AND REACTIVITY



STABILITY: THE PRODUCT IS STABLE

POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: NONE REASONABLY FORESEEABLE.

11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

ORAL LD50 ESTIMATED TO BE GREATER THAN 5000 MG/KG

DERMAL LD50 ESTIMATED TO BE >2000 MG/KG

COMPONENT INFORMATION: SEE SECTION 3

CHRONIC TOXICITY: NONE KNOWN

SPECIFIC EFFECTS:

CARCINOGENIC EFFECTS: NONE KNOWN

MUTAGENIC EFFECTS: NONE KNOWN

REPRODUCTIVE TOXICITY: NONE KNOWN

TARGET ORGAN EFFECTS: NONE KNOWN

HAZARDOUS COMPONENTS:

INGREDIENT(S)	CAS #	NTP	IARC	OSHA
ETHYL ALCOHOL	64-17-5	X		X

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL INFORMATION: NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS

WASTE FROM RESIDUES / UNUSED PRODUCTS:

DISPOSE OF ACCORDING TO ALL FEDERAL, STATE AND LOCAL APPLICABLE REGULATIONS

14. TRANSPORT INFORMATION

DOT/TDG:

PLEASE REFER TO THE BILL OF LADING/RECEIVING DOCUMENTS FOR UP TO DATE
SHIPPING INFORMATION**15. REGULATORY INFORMATION**

INTERNATIONAL INVENTORIES:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE FOLLOWING INVENTORIES:
U.S.A. (TSCA).

U.S. REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER
CALIFORNIA'S PROPOSITION 65

SARA 311/312 HAZARD CATEGORIES:

IMMEDIATE	(X)
DELAYED	()
FIRE	()
REACTIVITY	()
SUDDEN RELEASE OF PRESSURE	()

CANADA:

WHMIS HAZARD CLASS: NOT FOR SALE IN CANADA.

STATE RIGHT TO KNOW:

INGREDIENT(S)	CAS #	NJRTK	MARTK	PARTK	RIRTK
WATER	7732-18-5				
ALCOHOL ETHOXYLATES	68439-46-3				
ALKYL POLY GLYCOSIDE	110615-47-9				

FRAGRANCE	TS*				
ETHYL ALCOHOL	64-17-5	X	X	X	X
BACTERIAL CULTURES	TS*				

CERCLA/SARA:

16. OTHER INFORMATION



HMIS:

HEALTH 2
FIRE HAZARD 0
REACTIVITY 0

NFPA:

HEALTH 2
FLAMMABILITY 0
INSTABILITY 0

REASON FOR REVISION: NOT APPLICABLE

PREPARED BY: NAPRAC

ADDITIONAL ADVICE: NONE

NOTICE TO READER:

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MSDS

Common Name: ECONOMIC FLOOR FINISH**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 8/28/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2CYG1, 2CYG2**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

ECONOMIC FLOOR FINISH

	HMIS	NFPA
HEALTH	1	1
FIRE HAZARD	0	0
REACTIVITY	0	0

PERSONAL PROTECTIVE EQUIPMENT: NONE

VERSION NUMBER: 1

PREPARATION DATE: 8/28/07

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: ECONOMIC FLOOR FINISH

MSDS #:

PRODUCT CODE: 2CYG1, 2CYG2

RECOMMENDED USE: FLOOR CARE.

MANUFACTURER, IMPORTER, SUPPLIER:

MANUFACTURED FOR:

W.W. GRAINGER, INC.

100 GRAINGER PARKWAY

LAKE FOREST, IL 60045-5201

PHONE: 1-847-535-1000

TECHNICAL SERVICE: 1-847-535-5400

EMERGENCY TELEPHONE NUMBER: 1-800-983-4582

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

CAUTION.

MAY BE MILDLY IRRITATING TO EYES. MAY BE MILDLY IRRITATING TO SKIN.

PRINCIPLE ROUTES OF EXPOSURE: EYE CONTACT. SKIN CONTACT. INHALATION.

EYE CONTACT: MAY BE MILDLY IRRITATING TO EYES.

SKIN CONTACT: MAY BE MILDLY IRRITATING TO SKIN.

INHALATION: NONE KNOWN.

INGESTION: NONE KNOWN.

3. COMPOSITION/INFORMATION ON INGREDIENTS



HAZARDOUS COMPONENTS:

INGREDIENT(S)	CAS #	WEIGHT %
DIPROPYLENE GLYCOL METHYL ETHER	34590-94-8	1 - 5%

INGREDIENT(S)	LD50 ORAL - RAT	LD50 DERMAL - RABBIT	LC50 INHALATION - RAT
DIPROPYLENE GLYCOL METHYL ETHER	=5230 MG/KG	=9500 MG/KG	NOT AVAILABLE

4. FIRST AID MEASURES



EYE CONTACT:

FLUSH IMMEDIATELY WITH PLENTY OF WATER. IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION.

SKIN CONTACT:

FLUSH IMMEDIATELY WITH PLENTY OF WATER. IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION.

INHALATION: NO SPECIFIC FIRST AID MEASURES ARE REQUIRED.

INGESTION: NO SPECIFIC FIRST AID MEASURES ARE REQUIRED.

AGGRAVATED MEDICAL CONDITIONS: NONE KNOWN.

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:

THE PRODUCT IS NOT FLAMMABLE. DRY CHEMICAL, WATER SPRAY, FOAM, CARBON DIOXIDE.

SPECIFIC HAZARDS: NONE KNOWN.

UNUSUAL HAZARDS: NONE KNOWN.

SPECIFIC METHODS: NO SPECIAL METHODS REQUIRED.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS: NONE.

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS: NOT APPLICABLE.

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

ABSORB SPILL WITH INERT MATERIAL (E.G. DRY SAND OR EARTH), THEN PLACE IN A CHEMICAL WASTE CONTAINER.

7. HANDLING AND STORAGE



HANDLING:

AVOID CONTACT WITH SKIN AND EYES. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

STORAGE:

PROTECT FROM FREEZING. KEEP TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE. KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



ENGINEERING MEASURES TO REDUCE EXPOSURE:

NO SPECIAL VENTILATION REQUIREMENTS. GENERAL ROOM VENTILATION IS ADEQUATE.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.

HAND PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

SKIN AND BODY PROTECTION:

NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.

RESPIRATORY PROTECTION:

NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.

HYGIENE MEASURES:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.

INGREDIENT(S)	CAS #	ACGIH	OSHA	MEXICO
DIPROPYLENE GLYCOL	34590-94-8	150 PPM (STEL)		150 PPM (STEL)
METHYL ETHER		100 PPM (TWA)		900 MG/M3 (STEL) 60 MG/M3 (TWA) 100 PPM (TWA)

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID

BULK DENSITY: NO INFORMATION AVAILABLE

pH: 8.3

DILUTION pH: NO INFORMATION AVAILABLE.

APPEARANCE: EMULSION

VAPOR DENSITY: NO INFORMATION AVAILABLE

COLOR: OPAQUE WHITE

EVAPORATION RATE: NO INFORMATION AVAILABLE

ODOR: MILD AMMONIACAL

BOILING POINT/RANGE: NOT DETERMINED

SPECIFIC GRAVITY: 1.02

MELTING POINT/RANGE: NOT DETERMINED

DENSITY: 8.56

DECOMPOSITION TEMPERATURE: NOT DETERMINED

VOC: 2.5

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

FLASH POINT:

>200 DEG. F

>93.3 DEG. C

PARTITION COEFFICIENT (n-OCTANOL/WATER): NO INFORMATION AVAILABLE

SOLUBILITY: DISPERSIBLE

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

VISCOSITY: NO INFORMATION AVAILABLE

ELEMENTAL PHOSPHORUS: 0.07 %P

10. STABILITY AND REACTIVITY



STABILITY: THE PRODUCT IS STABLE

POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: NONE REASONABLY FORESEEABLE.

CONDITIONS TO AVOID: DO NOT FREEZE.

11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

ORAL LD50: ESTIMATED TO BE GREATER THAN 5000 MG/KG.

DERMAL LD50: ESTIMATED TO BE >2000 MG/KG.

COMPONENT INFORMATION: SEE SECTION 3

CHRONIC TOXICITY: NONE KNOWN

SPECIFIC EFFECTS:

CARCINOGENIC EFFECTS: NONE KNOWN

MUTAGENIC EFFECTS: NONE KNOWN

REPRODUCTIVE TOXICITY: NONE KNOWN

TARGET ORGAN EFFECTS: NONE KNOWN

12. ECOLOGICAL INFORMATION



ENVIRONMENTAL INFORMATION: NO DATA AVAILABLE.

13. DISPOSAL CONSIDERATIONS



WASTE FROM RESIDUES / UNUSED PRODUCTS:

DISPOSE OF ACCORDING TO ALL FEDERAL, STATE AND LOCAL APPLICABLE REGULATIONS

14. TRANSPORT INFORMATION



DOT/TDG:

PLEASE REFER TO THE BILL OF LADING/RECEIVING DOCUMENTS FOR UP TO DATE SHIPPING INFORMATION

15. REGULATORY INFORMATION



INTERNATIONAL INVENTORIES:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE FOLLOWING INVENTORIES:
U.S.A. (TSCA), CANADA (DSL/NDL).

U.S. REGULATIONS:

CALIFORNIA PROPOSITION 65:
THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER
CALIFORNIA'S PROPOSITION 65

STATE RIGHT TO KNOW:

INGREDIENT(S)	CAS #	MARTK	NJRTK	PARTK	RIRTK
WATER	7732-18-5				
MODIFIED STYRENE ACRYLIC POLYMERS	64461-17-2				
STYRENE ACRYLIC POLYMERS	TS*				
DIPROPYLENE GLYCOL METHYL ETHER	34590-94-8	X	X	X	X
DIETHYLENE GLYCOL MONOETHYL ETHER	111-90-0			X	

CERCLA/ SARA:

INGREDIENT(S)	CAS #	WEIGHT %	CERCLA/SARA RQ (LBS)	SECTION 302 TPQ (LBS)	SECTION 313
DIETHYLENE GLYCOL MONOETHYL ETHER	111-90-0	1 - 5%			X

CAA HAP/CAA ODS/CWA PRIORITY POLLUTANTS: NONE

INGREDIENT(S)	CAA HAP	CAA ODS	CWA PRIORITY POLLUTANTS
DIETHYLENE GLYCOL MONOETHYL ETHER	X		

SARA 311/312 HAZARD CATEGORIES:

IMMEDIATE ()
 DELAYED ()
 FIRE ()
 REACTIVITY ()
 SUDDEN RELEASE OF PRESSURE ()

CANADA:

WHMIS HAZARD CLASS: NON-CONTROLLED.

INGREDIENT(S)	CAS #	NPRI
DIPROPYLENE GLYCOL METHYL ETHER	34590-94-8	X
DIETHYLENE GLYCOL MONOETHYL ETHER	111-90-0	X

16. OTHER INFORMATION



REASON FOR REVISION: NOT APPLICABLE

PREPARED BY: NAPRAC

ADDITIONAL ADVICE: NONE

NOTICE TO READER:

THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS RESPONSIBLE TO EVALUATE ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS.

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MSDS

Common Name: FLOOR SEALER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 9/27/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2CYG7, 2CYG8**Manufacturer Model Number(s):**

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TOUGH GUY

MATERIAL SAFETY DATA SHEET

FLOOR SEALER

VERSION NUMBER: 1

PREPARATION DATE: 2007-09-27

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: FLOOR SEALER

MSDS #: MS0600420

PRODUCT CODE: 2CYG8, 2CYG7

RECOMMENDED USE: FLOOR CARE.

MANUFACTURER, IMPORTER, SUPPLIER:

MANUFACTURED FOR:
W. W. GRAINGER, INC.
100 GRAINGER PARKWAY
LAKE FOREST, IL 60045-5201

PHONE: 1-847-535-1000

TECHNICAL SERVICE: 1-847-535-5400

EMERGENCY TELEPHONE NUMBER: 1-800-983-4582

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

CAUTION

MAY BE MILDLY IRRITATING TO EYES

MAY BE MILDLY IRRITATING TO SKIN

PRINCIPLE ROUTES OF EXPOSURE:

EYE CONTACT

SKIN CONTACT

INHALATION

EYE CONTACT: MAY BE MILDLY IRRITATING TO EYES

SKIN CONTACT: MAY BE MILDLY IRRITATING TO SKIN

INHALATION: NONE KNOWN

INGESTION: NONE KNOWN

3. COMPOSITION/INFORMATION ON INGREDIENTS



HAZARDOUS COMPONENTS:

INGREDIENT(S)	CAS #	WEIGHT %
DIPROPYLENE GLYCOL METHYL ETHER	34590-94-8	1 - 5%
ZINC AMMONIUM CARBONATE	40861-29-8	0.1 - 1.5%

HAZARDOUS COMPONENTS:

INGREDIENT(S)	LD50 ORAL - RAT (MG/KG)	LD50 DERMAL - RABBIT	LC50 INHALATION - RAT
DIPROPYLENE GLYCOL METHYL ETHER		9500 MG/KG	NOT AVAILABLE
ZINC AMMONIUM CARBONATE		NOT AVAILABLE	NOT AVAILABLE

4. FIRST AID MEASURES



EYE CONTACT:

FLUSH IMMEDIATELY WITH PLENTY OF WATER

IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION

SKIN CONTACT:

FLUSH IMMEDIATELY WITH PLENTY OF WATER
IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION

INHALATION: NO SPECIFIC FIRST AID MEASURES ARE REQUIRED

INGESTION: NO SPECIFIC FIRST AID MEASURES ARE REQUIRED

AGGRAVATED MEDICAL CONDITIONS: NONE KNOWN

5. FIRE-FIGHTING MEASURES**SUITABLE EXTINGUISHING MEDIA:**

THE PRODUCT IS NOT FLAMMABLE
DRY CHEMICAL, WATER SPRAY, FOAM, CARBON DIOXIDE

SPECIFIC HAZARDS: NONE KNOWN

UNUSUAL HAZARDS: NONE KNOWN

SPECIFIC METHODS: NO SPECIAL METHODS REQUIRED

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND,
MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS: NONE

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: NOT APPLICABLE

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION
SOAK UP WITH INERT ABSORBENT MATERIAL
SWEEP UP AND SHOVEL INTO SUITABLE CONTAINERS FOR DISPOSAL
KEEP IN SUITABLE AND CLOSED CONTAINERS FOR DISPOSAL
USE A WATER RINSE FOR FINAL CLEAN-UP

7. HANDLING AND STORAGE

HANDLING: AVOID CONTACT WITH SKIN AND EYES

FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

STORAGE:

PROTECT FROM FREEZING
KEEP TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE
KEEP OUT OF REACH OF CHILDREN

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**ENGINEERING MEASURES TO REDUCE EXPOSURE:**

NO SPECIAL VENTILATION REQUIREMENTS

GENERAL ROOM VENTILATION IS ADEQUATE

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

HAND PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

SKIN AND BODY PROTECTION:

NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

RESPIRATORY PROTECTION:

NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

HYGIENE MEASURES:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE

PERSONAL PROTECTIVE EQUIPMENT: NONE

INGREDIENT(S)	CAS #	ACGIH	OSHA	MEXICO
DIPROPYLENE GLYCOL	34590-94-8	150 PPM	SKIN	150 PPM (STEL)
METHYL ETHER		(STEL)	100 PPM	900 MG/M3 (STEL)
		100 PPM	(TWA)	60 MG/M3 (TWA)
		(TWA)	600 MG/M3	100 PPM (TWA)
			(TWA)	

9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID

APPEARANCE: EMULSION

SPECIFIC GRAVITY: 1.02

pH: 8.3

DILUTION pH: NO INFORMATION AVAILABLE.

ELEMENTAL PHOSPHORUS: 0.17 %P

DENSITY: 8.56 LBS/GAL

BULK DENSITY: NO INFORMATION AVAILABLE

VAPOR DENSITY: NO INFORMATION AVAILABLE

EVAPORATION RATE: NO INFORMATION AVAILABLE

SOLUBILITY: INSOLUBLE

VOC: 2.5% *

VISCOSITY: NO INFORMATION AVAILABLE

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

PARTITION COEFFICIENT (n-OCTANOL/WATER): NO INFORMATION AVAILABLE

COLOR: WHITE

ODOR: AMMONIA

BOILING POINT/RANGE: NOT DETERMINED

MELTING POINT/RANGE: NOT DETERMINED

FLASH POINT:

>200 DEG. F

>93.3 DEG. C

DECOMPOSITION TEMPERATURE: NOT DETERMINED

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

* - TITLE 17, CALIFORNIA CODE OF REGULATIONS, DIVISION 3, CHAPTER 1,
SUBCHAPTER 8.5, ARTICLE 2, CONSUMER PRODUCTS, SECTIONS 94508

10. STABILITY AND REACTIVITY



STABILITY: THE PRODUCT IS STABLE

POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: NONE REASONABLY FORESEEABLE.

CONDITIONS TO AVOID: DO NOT FREEZE

11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

ORAL LD50: ESTIMATED TO BE GREATER THAN 5000 MG/KG

DERMAL LD50: ESTIMATED TO BE >2000 MG/KG

COMPONENT INFORMATION: SEE SECTION 3

CHRONIC TOXICITY: NONE KNOWN

SPECIFIC EFFECTS:

CARCINOGENIC EFFECTS: NONE KNOWN

MUTAGENIC EFFECTS: NONE KNOWN

REPRODUCTIVE TOXICITY: NONE KNOWN

TARGET ORGAN EFFECTS: NONE KNOWN

12. ECOLOGICAL INFORMATION



ENVIRONMENTAL INFORMATION: NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS



14. TRANSPORT INFORMATION



DOT/TDG:

PLEASE REFER TO THE BILL OF LADING/RECEIVING DOCUMENTS FOR UP TO DATE SHIPPING INFORMATION

15. REGULATORY INFORMATION



INTERNATIONAL INVENTORIES:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE FOLLOWING INVENTORIES:
U.S.A. (TSCA).

U.S. REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER CALIFORNIA'S PROPOSITION 65

SARA 311/312 HAZARD CATEGORIES:

IMMEDIATE ()
 DELAYED ()
 FIRE ()
 REACTIVITY ()
 SUDDEN RELEASE OF PRESSURE ()

CANADA:

WHMIS HAZARD CLASS: NOT FOR SALE IN CANADA.

STATE RIGHT TO KNOW:

INGREDIENT(S)	CAS #	NJRTK	MARTK	PARTK	RIRTK
WATER	7732-18-5				
TRIBUTOXYETHYL PHOSPHATE	78-51-3				
MODIFIED STYRENE ACRYLIC POLYMERS	64461-17-2				
STYRENE ACRYLIC POLYMERS	TS*				
DIPROPYLENE GLYCOL METHYL ETHER	34590-94-8	X	X	X	X
ZINC AMMONIUM CARBONATE	40861-29-8	X		X	
DIETHYLENE GLYCOL MONOETHYL ETHER	111-90-0	X		X	

CERCLA/SARA:

INGREDIENT(S)	CAS #	WEIGHT %	CERCLA/SARA RQ (LBS)	SECTION 302 TPQ (LBS)	SECTION 313
ZINC AMMONIUM CARBONATE	40861-29-8	0.1 - 1.5%			X
DIETHYLENE GLYCOL MONOETHYL ETHER	111-90-0	1 - 5%			X

CAA HAP/CAA ODS/CWA PRIORITY POLLUTANTS: NONE

INGREDIENT(S)	CAA HAP	CAA ODS	CWA PRIORITY POLLUTANTS

DIETHYLENE GLYCOL X
MONOETHYL ETHER

16. OTHER INFORMATION



HMIS:

HEALTH 1
FIRE HAZARD 0
REACTIVITY 0

NFPA:

HEALTH 1
FLAMMABILITY 0
INSTABILITY 0

REASON FOR REVISION: NOT APPLICABLE

PREPARED BY: NAPRAC

ADDITIONAL ADVICE: NONE

NOTICE TO READER:

THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS RESPONSIBLE TO EVALUATE ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS.

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MSDS

Common Name: NEUTRAL FLOOR CLEANER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 7/17/2008**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2CYH4, 2CYH5, 2CYH6, 2UPW3**Manufacturer Model Number(s):**

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TOUGH GUY

MATERIAL SAFETY DATA SHEET

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME/TRADE NAME: NEUTRAL FLOOR CLEANER

CODE: 2UPW3

CAS #: NOT APPLICABLE.

SYNONYM: NEUTRAL CLEANER

CHEMICAL FAMILY: N/A

MANUFACTURER/SUPPLIER

W. W. GRAINGER

100 GRAINGER PARKWAY

LAKE FOREST, IL 60045-5201

PHONE NUMBERS:

IN CASE OF EMERGENCY: (800) 228-5635
NON-EMERGENCY PHONE: (847) 535-1000
MSDS REQUEST PHONE: (847) 535-5400

TSCA:

TSCA INVENTORY: ALL COMPONENTS LISTED OR ARE EXEMPT FROM LISTING.

DSL:

DSL: ALL COMPONENTS LISTED UNLESS NOTED ELSEWHERE ON THIS MSDS

VALIDATION DATE: 7/17/2008

PRINT DATE: 7/17/2008

PROTECTIVE CLOTHING:

SAFETY GLASSES

GLOVES

SECTION 2. COMPOSITION AND INFORMATION ON INGREDIENTS

NAME	CAS #	% BY WEIGHT	EXPOSURE LIMITS	LC50/LD50
SODIUM XYLENE SULFONATE	1300-72-7	5 - 10	NOT AVAILABLE.	ORAL (LD50): ACUTE: 650 MG/KG (RAT). 5939 MG/KG (MOUSE).
POLYGLYCOSIDE SURFACTANT	110615-47-9	5 - 10	NOT AVAILABLE.	NOT AVAILABLE.
TETRASODIUM SALT OF ETHYLENDIAMINE-TETRAACETIC ACID	64-02-8	<5	NOT AVAILABLE.	ORAL (LD50): ACUTE: 3030 MG/KG (RAT).

SECTION 3. HAZARDS IDENTIFICATION**POTENTIAL ACUTE HEALTH EFFECTS:**

NO SPECIFIC INFORMATION IS AVAILABLE IN OUR DATABASE REGARDING THE ACUTE TOXIC EFFECTS OF THIS MATERIAL FOR HUMANS.

POTENTIAL CHRONIC HEALTH EFFECTS:

REPEATED SKIN EXPOSURE CAN PRODUCE LOCAL SKIN DESTRUCTION, OR DERMATITIS.

CARCINOGENIC EFFECTS:

NOT CLASSIFIED OR LISTED BY IARC, NTP, OSHA, EU AND ACGIH.

SECTION 4. FIRST AID MEASURES**EYE CONTACT:**

THIS PRODUCT IS AN EYE IRRITANT. IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER. SEEK MEDICAL ATTENTION.

SKIN CONTACT: RINSE WITH PLENTY OF RUNNING WATER.

INHALATION: NO SPECIFIC DATA.

INGESTION:

MAY BE IRRITATING TO GASTROINTESTINAL SYSTEM, MOUTH, THROAT, AND ESOPHAGUS. VOMITING AND DIARRHEA EXPECTED WITH LARGE DOSES. HAVE CONSCIOUS PERSON DRINK SEVERAL GLASSES OF WATER OR MILK. SEEK MEDICAL ATTENTION.

SECTION 5. FIRE FIGHTING MEASURES



PRODUCTS OF COMBUSTION: NOT AVAILABLE.

FIRE FIGHTING MEDIA AND INSTRUCTIONS: NON-FLAMMABLE SUBSTANCE.

SPECIAL REMARKS ON FIRE HAZARDS: NO ADDITIONAL REMARK.

SPECIAL REMARKS ON EXPLOSION HAZARDS: NO ADDITIONAL REMARK.

SECTION 6. ACCIDENTAL RELEASE MEASURES



SMALL SPILL AND LEAK:

ABSORB WITH AN INERT MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER.

LARGE SPILL AND LEAK:

ABSORB WITH AN INERT MATERIAL AND PUT THE SPILLED MATERIAL IN AN APPROPRIATE WASTE DISPOSAL.

PERSONAL PROTECTION IN CASE OF A LARGE SPILL:

SPLASH GOGGLES. FULL SUIT. BOOTS. GLOVES. SUGGESTED PROTECTIVE CLOTHING MIGHT NOT BE SUFFICIENT; CONSULT A SPECIALIST BEFORE HANDLING THIS PRODUCT.

SECTION 7. HANDLING AND STORAGE



PRECAUTIONS: AVOID CONTACT WITH EYES. DO NOT INGEST.

INCOMPATIBILITY: NO INCOMPATIBLE PRODUCT ACCORDING TO OUR DATA BASE.

STORAGE:

KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINER TIGHTLY CLOSED AND DRY. FOR INSTITUTIONAL AND COMMERCIAL USE

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



ENGINEERING CONTROLS:

GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS.

PERSONAL PROTECTION:

EYES: SAFETY GLASSES.

BODY: NO SPECIAL PROTECTIVE CLOTHING IS REQUIRED.

RESPIRATORY: NOT APPLICABLE.

HANDS: GLOVES.

PROTECTIVE CLOTHING (PICTOGRAMS):

SAFETY GLASSES
GLOVES

EXPOSURE LIMITS: NOT AVAILABLE.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE AND APPEARANCE: LIQUID.

ODOR: PLEASANT.

TASTE: NOT AVAILABLE.

COLOR: YELLOW.

MOLECULAR WEIGHT: NOT APPLICABLE.

pH: 7 TO 8 (BASIC.)

BOILING/CONDENSATION POINT: 100 DEG. C (212 DEG. F)

MELTING/FREEZING POINT: NOT AVAILABLE.

CRITICAL TEMPERATURE: NOT AVAILABLE.

INSTABILITY TEMPERATURE: NOT AVAILABLE.

SPECIFIC GRAVITY: 1 (WATER = 1)

VAPOR PRESSURE: 20 MM OF Hg (@ 20 DEG. C)

VAPOR DENSITY: >1 (AIR = 1)

VOLATILITY: NOT AVAILABLE.

VOC: 8.5077 (G/L).

EVAPORATION RATE: <1

DISPERSION PROPERTIES: SEE SOLUBILITY IN WATER.

SOLUBILITY: SOLUBLE

THE PRODUCT IS: MAY BE COMBUSTIBLE AT HIGH TEMPERATURE.

AUTO-IGNITION TEMPERATURE: NOT AVAILABLE.

FLASH POINTS: NONE TO BOILING (TCC)

FLAMMABLE LIMITS: N/A

FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES:
NO SPECIFIC INFORMATION IS AVAILABLE IN OUR DATABASE REGARDING THE
FLAMMABILITY OF THIS PRODUCT IN PRESENCE OF VARIOUS MATERIALS.

EXPLOSION HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES:
NO SPECIFIC INFORMATION IS AVAILABLE IN OUR DATABASE REGARDING THE
PRODUCT'S RISKS OF EXPLOSION IN THE PRESENCE OF VARIOUS MATERIALS.

SECTION 10. STABILITY AND REACTIVITY DATA



STABILITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY WITH VARIOUS SUBSTANCES:
NO INCOMPATIBLE PRODUCT ACCORDING TO OUR DATA BASE.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE KNOWN

SECTION 11. TOXICOLOGICAL INFORMATION



ROUTES OF ENTRY: ABSORBED THROUGH SKIN. EYE CONTACT. INGESTION.

TOXICITY TO ANIMALS:
ACUTE ORAL TOXICITY (LD50): 3030 MG/KG (RAT). (TETRASODIUM EDTA).

ACUTE EFFECTS ON HUMANS:
EYES: THIS PRODUCT IS AN EYE IRRITANT.
SKIN: SLIGHTLY IRRITATING
INHALATION: NOT AVAILABLE.
INGESTION: IRRITANT. VOMITING AND DIARRHEA POSSIBLE

CHRONIC EFFECTS ON HUMANS:
REPEATED SKIN EXPOSURE CAN PRODUCE LOCAL SKIN DESTRUCTION, OR DERMATITIS.

SPECIAL REMARKS ON TOXICITY TO ANIMALS: NO ADDITIONAL REMARK.

SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS: NO ADDITIONAL REMARK.

SECTION 12. ECOLOGICAL INFORMATION



ECOTOXICITY: NOT AVAILABLE.

BOD5 AND COD: NOT AVAILABLE

PRODUCTS OF BIODEGRADATION:
POSSIBLY HAZARDOUS SHORT TERM DEGRADATION PRODUCTS ARE NOT LIKELY.
HOWEVER, LONG TERM DEGRADATION PRODUCTS MAY ARISE.

TOXICITY OF THE PRODUCTS OF BIODEGRADATION: NOT AVAILABLE.

SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION: NO ADDITIONAL REMARK.

SECTION 13. DISPOSAL CONSIDERATIONS



WASTE INFORMATION:
WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL
ENVIRONMENTAL CONTROL REGULATIONS.

WASTE STREAM: NOT AVAILABLE.

SECTION 14. TRANSPORT INFORMATION



DOT (U.S.A) (PICTOGRAMS): NO PLACARD REQUIRED

TDG CLASSIFICATION: NOT CONTROLLED UNDER TDG (CANADA) .

PIN UN, PROPER SHIPPING NAME, PG: NOT APPLICABLE.

MARITIME TRANSPORTATION: NOT AVAILABLE.

SPECIAL PROVISIONS FOR TRANSPORT: NOT APPLICABLE.

SECTION 15. OTHER REGULATORY INFORMATION AND PICTOGRAMS



WHMIS (CLASSIFICATION):

WHMIS CLASS D-2: MATERIAL CAUSING OTHER TOXIC EFFECTS.

REGULATORY LISTS: NO PRODUCTS WERE FOUND.

OTHER REGULATIONS: NOT AVAILABLE. OR OF ITS INGREDIENTS

OTHER CLASSIFICATIONS:

HCS (U.S.A.):

HCS CLASS: IRRITATING SUBSTANCE.

USA REGULATORY LISTS:

CALIFORNIA PROP. 65:

THIS PRODUCT CONTAINS THE FOLLOWING INGREDIENTS FOR WHICH THE STATE OF CALIFORNIA HAS FOUND TO CAUSE REPRODUCTIVE HARM (FEMALE) WHICH WOULD REQUIRE A WARNING UNDER THE STATUTE: ETHYLENE OXIDE <1 PPM

CALIFORNIA PROP. 65:

THIS PRODUCT CONTAINS THE FOLLOWING INGREDIENTS FOR WHICH THE STATE OF CALIFORNIA HAS FOUND TO CAUSE CANCER WHICH WOULD REQUIRE A WARNING UNDER THE STATUTE: ETHYLENE OXIDE <1 PPM

MASSACHUSETTS RTK: ETHYLENE OXIDE

SARA 311/312: SODIUM XYLENE SULFONATE; NONIONIC SURFACTANT

SARA 313: NO COMPONENTS FOUND

DSD (EEC): THIS PRODUCT IS NOT CLASSIFIED ACCORDING TO THE EU REGULATIONS.

INTERNATIONAL REGULATIONS LISTS: NO PRODUCTS WERE FOUND.

HAZARDOUS MATERIAL INFORMATION SYSTEM (U.S.A.):

HEALTH 1
FLAMMABILITY 0
PHYSICAL HAZARD 0

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

HEALTH 1
FLAMMABILITY 0
INSTABILITY 0
SPECIFIC HAZARD

THE HAZARD RANKING SYSTEMS PRESENTED ON THIS MSDS PROVIDE ONLY A QUICK REFERENCE FOR HAZARD INFORMATION. THE ENTIRE MSDS MUST BE CONSULTED TO DETERMINE ANY SPECIFIC HAZARDS, FIRST AID MEASURES, AND PPE ASSOCIATED WITH THIS PRODUCT.

SECTION 16. OTHER INFORMATION

VALIDATED BY CRUSHTON ON: 7/17/2008.

VERIFIED BY: CRUSHTON.

PRINTED: 7/17/2008.

INFORMATION CONTACT:

W. W. GRAINGER

100 GRAINGER PARKWAY

LAKE FOREST, IL 60045-5201

NOTICE TO READER:

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS SUBSIDIARIES ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

[Close this window](#)

MSDS

Common Name: NEUTRAL FLOOR CLEANER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 7/17/2008**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2CYH4, 2CYH5, 2CYH6, 2UPW3**Manufacturer Model Number(s):**

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TOUGH GUY

MATERIAL SAFETY DATA SHEET

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME/TRADE NAME: NEUTRAL FLOOR CLEANER

CODE: 2UPW3

CAS #: NOT APPLICABLE.

SYNONYM: NEUTRAL CLEANER

CHEMICAL FAMILY: N/A

MANUFACTURER/SUPPLIER

W. W. GRAINGER

100 GRAINGER PARKWAY

LAKE FOREST, IL 60045-5201

PHONE NUMBERS:

IN CASE OF EMERGENCY: (800) 228-5635
NON-EMERGENCY PHONE: (847) 535-1000
MSDS REQUEST PHONE: (847) 535-5400

TSCA:

TSCA INVENTORY: ALL COMPONENTS LISTED OR ARE EXEMPT FROM LISTING.

DSL:

DSL: ALL COMPONENTS LISTED UNLESS NOTED ELSEWHERE ON THIS MSDS

VALIDATION DATE: 7/17/2008

PRINT DATE: 7/17/2008

PROTECTIVE CLOTHING:

SAFETY GLASSES

GLOVES

SECTION 2. COMPOSITION AND INFORMATION ON INGREDIENTS

NAME	CAS #	% BY WEIGHT	EXPOSURE LIMITS	LC50/LD50
SODIUM XYLENE SULFONATE	1300-72-7	5 - 10	NOT AVAILABLE.	ORAL (LD50): ACUTE: 650 MG/KG (RAT). 5939 MG/KG (MOUSE).
POLYGLYCOSIDE SURFACTANT	110615-47-9	5 - 10	NOT AVAILABLE.	NOT AVAILABLE.
TETRASODIUM SALT OF ETHYLENDIAMINE-TETRAACETIC ACID	64-02-8	<5	NOT AVAILABLE.	ORAL (LD50): ACUTE: 3030 MG/KG (RAT).

SECTION 3. HAZARDS IDENTIFICATION**POTENTIAL ACUTE HEALTH EFFECTS:**

NO SPECIFIC INFORMATION IS AVAILABLE IN OUR DATABASE REGARDING THE ACUTE TOXIC EFFECTS OF THIS MATERIAL FOR HUMANS.

POTENTIAL CHRONIC HEALTH EFFECTS:

REPEATED SKIN EXPOSURE CAN PRODUCE LOCAL SKIN DESTRUCTION, OR DERMATITIS.

CARCINOGENIC EFFECTS:

NOT CLASSIFIED OR LISTED BY IARC, NTP, OSHA, EU AND ACGIH.

SECTION 4. FIRST AID MEASURES**EYE CONTACT:**

THIS PRODUCT IS AN EYE IRRITANT. IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER. SEEK MEDICAL ATTENTION.

SKIN CONTACT: RINSE WITH PLENTY OF RUNNING WATER.

INHALATION: NO SPECIFIC DATA.

INGESTION:

MAY BE IRRITATING TO GASTROINTESTINAL SYSTEM, MOUTH, THROAT, AND ESOPHAGUS. VOMITING AND DIARRHEA EXPECTED WITH LARGE DOSES. HAVE CONSCIOUS PERSON DRINK SEVERAL GLASSES OF WATER OR MILK. SEEK MEDICAL ATTENTION.

SECTION 5. FIRE FIGHTING MEASURES



PRODUCTS OF COMBUSTION: NOT AVAILABLE.

FIRE FIGHTING MEDIA AND INSTRUCTIONS: NON-FLAMMABLE SUBSTANCE.

SPECIAL REMARKS ON FIRE HAZARDS: NO ADDITIONAL REMARK.

SPECIAL REMARKS ON EXPLOSION HAZARDS: NO ADDITIONAL REMARK.

SECTION 6. ACCIDENTAL RELEASE MEASURES



SMALL SPILL AND LEAK:

ABSORB WITH AN INERT MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER.

LARGE SPILL AND LEAK:

ABSORB WITH AN INERT MATERIAL AND PUT THE SPILLED MATERIAL IN AN APPROPRIATE WASTE DISPOSAL.

PERSONAL PROTECTION IN CASE OF A LARGE SPILL:

SPLASH GOGGLES. FULL SUIT. BOOTS. GLOVES. SUGGESTED PROTECTIVE CLOTHING MIGHT NOT BE SUFFICIENT; CONSULT A SPECIALIST BEFORE HANDLING THIS PRODUCT.

SECTION 7. HANDLING AND STORAGE



PRECAUTIONS: AVOID CONTACT WITH EYES. DO NOT INGEST.

INCOMPATIBILITY: NO INCOMPATIBLE PRODUCT ACCORDING TO OUR DATA BASE.

STORAGE:

KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINER TIGHTLY CLOSED AND DRY. FOR INSTITUTIONAL AND COMMERCIAL USE

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



ENGINEERING CONTROLS:

GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS.

PERSONAL PROTECTION:

EYES: SAFETY GLASSES.

BODY: NO SPECIAL PROTECTIVE CLOTHING IS REQUIRED.

RESPIRATORY: NOT APPLICABLE.

HANDS: GLOVES.

PROTECTIVE CLOTHING (PICTOGRAMS):

SAFETY GLASSES
GLOVES

EXPOSURE LIMITS: NOT AVAILABLE.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE AND APPEARANCE: LIQUID.

ODOR: PLEASANT.

TASTE: NOT AVAILABLE.

COLOR: YELLOW.

MOLECULAR WEIGHT: NOT APPLICABLE.

pH: 7 TO 8 (BASIC.)

BOILING/CONDENSATION POINT: 100 DEG. C (212 DEG. F)

MELTING/FREEZING POINT: NOT AVAILABLE.

CRITICAL TEMPERATURE: NOT AVAILABLE.

INSTABILITY TEMPERATURE: NOT AVAILABLE.

SPECIFIC GRAVITY: 1 (WATER = 1)

VAPOR PRESSURE: 20 MM OF Hg (@ 20 DEG. C)

VAPOR DENSITY: >1 (AIR = 1)

VOLATILITY: NOT AVAILABLE.

VOC: 8.5077 (G/L).

EVAPORATION RATE: <1

DISPERSION PROPERTIES: SEE SOLUBILITY IN WATER.

SOLUBILITY: SOLUBLE

THE PRODUCT IS: MAY BE COMBUSTIBLE AT HIGH TEMPERATURE.

AUTO-IGNITION TEMPERATURE: NOT AVAILABLE.

FLASH POINTS: NONE TO BOILING (TCC)

FLAMMABLE LIMITS: N/A

FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES:
NO SPECIFIC INFORMATION IS AVAILABLE IN OUR DATABASE REGARDING THE
FLAMMABILITY OF THIS PRODUCT IN PRESENCE OF VARIOUS MATERIALS.

EXPLOSION HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES:
NO SPECIFIC INFORMATION IS AVAILABLE IN OUR DATABASE REGARDING THE
PRODUCT'S RISKS OF EXPLOSION IN THE PRESENCE OF VARIOUS MATERIALS.

SECTION 10. STABILITY AND REACTIVITY DATA



STABILITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY WITH VARIOUS SUBSTANCES:
NO INCOMPATIBLE PRODUCT ACCORDING TO OUR DATA BASE.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE KNOWN

SECTION 11. TOXICOLOGICAL INFORMATION



ROUTES OF ENTRY: ABSORBED THROUGH SKIN. EYE CONTACT. INGESTION.

TOXICITY TO ANIMALS:
ACUTE ORAL TOXICITY (LD50): 3030 MG/KG (RAT). (TETRASODIUM EDTA).

ACUTE EFFECTS ON HUMANS:
EYES: THIS PRODUCT IS AN EYE IRRITANT.
SKIN: SLIGHTLY IRRITATING
INHALATION: NOT AVAILABLE.
INGESTION: IRRITANT. VOMITING AND DIARRHEA POSSIBLE

CHRONIC EFFECTS ON HUMANS:
REPEATED SKIN EXPOSURE CAN PRODUCE LOCAL SKIN DESTRUCTION, OR DERMATITIS.

SPECIAL REMARKS ON TOXICITY TO ANIMALS: NO ADDITIONAL REMARK.

SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS: NO ADDITIONAL REMARK.

SECTION 12. ECOLOGICAL INFORMATION



ECOTOXICITY: NOT AVAILABLE.

BOD5 AND COD: NOT AVAILABLE

PRODUCTS OF BIODEGRADATION:
POSSIBLY HAZARDOUS SHORT TERM DEGRADATION PRODUCTS ARE NOT LIKELY.
HOWEVER, LONG TERM DEGRADATION PRODUCTS MAY ARISE.

TOXICITY OF THE PRODUCTS OF BIODEGRADATION: NOT AVAILABLE.

SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION: NO ADDITIONAL REMARK.

SECTION 13. DISPOSAL CONSIDERATIONS



WASTE INFORMATION:
WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL
ENVIRONMENTAL CONTROL REGULATIONS.

WASTE STREAM: NOT AVAILABLE.

SECTION 14. TRANSPORT INFORMATION



DOT (U.S.A) (PICTOGRAMS): NO PLACARD REQUIRED

TDG CLASSIFICATION: NOT CONTROLLED UNDER TDG (CANADA) .

PIN UN, PROPER SHIPPING NAME, PG: NOT APPLICABLE.

MARITIME TRANSPORTATION: NOT AVAILABLE.

SPECIAL PROVISIONS FOR TRANSPORT: NOT APPLICABLE.

SECTION 15. OTHER REGULATORY INFORMATION AND PICTOGRAMS



WHMIS (CLASSIFICATION):

WHMIS CLASS D-2: MATERIAL CAUSING OTHER TOXIC EFFECTS.

REGULATORY LISTS: NO PRODUCTS WERE FOUND.

OTHER REGULATIONS: NOT AVAILABLE. OR OF ITS INGREDIENTS

OTHER CLASSIFICATIONS:

HCS (U.S.A.):

HCS CLASS: IRRITATING SUBSTANCE.

USA REGULATORY LISTS:

CALIFORNIA PROP. 65:

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CALIFORNIA PROP. 65:

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MASSACHUSETTS RTK: ETHYLENE OXIDE

SARA 311/312: SODIUM XYLENE SULFONATE; NONIONIC SURFACTANT

SARA 313: NO COMPONENTS FOUND

DSD (EEC): THIS PRODUCT IS NOT CLASSIFIED ACCORDING TO THE EU REGULATIONS.

INTERNATIONAL REGULATIONS LISTS: NO PRODUCTS WERE FOUND.

HAZARDOUS MATERIAL INFORMATION SYSTEM (U.S.A.):

HEALTH 1
FLAMMABILITY 0
PHYSICAL HAZARD 0

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

HEALTH 1
FLAMMABILITY 0
INSTABILITY 0
SPECIFIC HAZARD

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SECTION 16. OTHER INFORMATION

VALIDATED BY CRUSHTON ON: 7/17/2008.

VERIFIED BY: CRUSHTON.

PRINTED: 7/17/2008.

INFORMATION CONTACT:

W. W. GRAINGER

100 GRAINGER PARKWAY

LAKE FOREST, IL 60045-5201

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MSDS

Common Name: HEAVY DUTY NON-BUTYL FLOOR STRIPPER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 10/5/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2CYJ2, 2CYJ3**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

TOUGH GUY

HEAVY DUTY NON-BUTYL FLOOR STRIPPER

VERSION NUMBER: 1

PREPARATION DATE: 2007-10-05

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: HEAVY DUTY NON-BUTYL FLOOR STRIPPER

MSDS #: MS0600407

PRODUCT CODE: 2CYJ2, 2CYJ3

RECOMMENDED USE:

FLOOR STRIPPER. THIS PRODUCT IS INTENDED TO BE DILUTED PRIOR TO USE.

MANUFACTURER, IMPORTER, SUPPLIER:

MANUFACTURED FOR:
W.W. GRAINGER, INC.
100 GRAINGER PARKWAY
LAKE FOREST, IL 60045-5201

PHONE: 1-847-535-1000

TECHNICAL SERVICE: 1-847-535-5400

EMERGENCY TELEPHONE NUMBER: 1-800-983-4582

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

DANGER

CORROSIVE

CAUSES SKIN AND EYE BURNS

HARMFUL OR FATAL IF SWALLOWED

PRINCIPLE ROUTES OF EXPOSURE:

EYE CONTACT

SKIN CONTACT

INHALATION

EYE CONTACT:

CORROSIVE

CAUSES PERMANENT EYE DAMAGE, INCLUDING BLINDNESS

SKIN CONTACT:

CORROSIVE

CAUSES PERMANENT DAMAGE

INHALATION:

MAY CAUSE IRRITATION AND CORROSIVE EFFECTS TO NOSE, THROAT AND RESPIRATORY TRACT

INGESTION:

CORROSIVE

CAUSES BURNS TO MOUTH, THROAT AND STOMACH

3. COMPOSITION/INFORMATION ON INGREDIENTS



HAZARDOUS COMPONENTS:

INGREDIENT(S)	CAS #	WEIGHT %
MONOETHANOLAMINE	141-43-5	5 - 10%
SODIUM HYDROXIDE	1310-73-2	1 - 5%

HAZARDOUS COMPONENTS:

INGREDIENT(S)	LD50 ORAL - RAT (MG/KG)	LD50 DERMAL - RABBIT	LC50 INHALATION - RAT
MONOETHANOLAMINE	1720	1 ML/KG	NOT AVAILABLE
SODIUM HYDROXIDE	140	1350 MG/KG	NOT AVAILABLE

4. FIRST AID MEASURES



EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR 15-20 MINUTES, KEEPING EYELIDS OPEN

GET MEDICAL ATTENTION IMMEDIATELY

SKIN CONTACT:

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15-20 MINUTES

GET MEDICAL ATTENTION IMMEDIATELY

INHALATION:

IF BREATHING IS AFFECTED, REMOVE TO FRESH AIR

GET MEDICAL ATTENTION IMMEDIATELY

INGESTION:

IF SWALLOWED, RINSE MOUTH

GIVE A CUPFUL OF WATER OR MILK

THEN IMMEDIATELY CONTACT A PHYSICIAN OR POISON CENTER

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON

AGGRAVATED MEDICAL CONDITIONS:

INDIVIDUALS WITH CHRONIC RESPIRATORY DISORDERS SUCH AS ASTHMA, CHRONIC BRONCHITIS, EMPHYSEMA, ETC., MAY BE MORE SUSCEPTIBLE TO IRRITATING EFFECTS

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:

THE PRODUCT IS NOT FLAMMABLE

EXTINGUISH FIRE USING AGENT SUITABLE FOR SURROUNDING FIRE

SPECIFIC HAZARDS: NOT APPLICABLE

UNUSUAL HAZARDS: NONE KNOWN

SPECIFIC METHODS: NO SPECIAL METHODS REQUIRED

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:

NO INFORMATION AVAILABLE

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8.)

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION

SOAK UP WITH INERT ABSORBENT MATERIAL

SWEEP UP AND SHOVEL INTO SUITABLE CONTAINERS FOR DISPOSAL

KEEP IN SUITABLE AND CLOSED CONTAINERS FOR DISPOSAL

USE A WATER RINSE FOR FINAL CLEAN-UP

7. HANDLING AND STORAGE



HANDLING:

AVOID CONTACT WITH SKIN, EYES AND CLOTHING

DO NOT TASTE OR SWALLOW

AVOID BREATHING VAPORS OR MISTS

USE ONLY WITH ADEQUATE VENTILATION

REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE

WASH THOROUGHLY AFTER HANDLING

PRODUCT RESIDUE MAY REMAIN ON/IN EMPTY CONTAINERS

ALL PRECAUTIONS FOR HANDLING THE PRODUCT MUST BE USED IN HANDLING THE EMPTY CONTAINER AND RESIDUE

FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

STORAGE:

PROTECT FROM FREEZING

KEEP TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE

KEEP OUT OF REACH OF CHILDREN

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



ENGINEERING MEASURES TO REDUCE EXPOSURE:

GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS
RESPIRATORY PROTECTION IS NOT REQUIRED IF GOOD VENTILATION IS MAINTAINED

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: CHEMICAL-SPLASH GOGGLES

HAND PROTECTION: CHEMICAL-RESISTANT GLOVES

SKIN AND BODY PROTECTION:

PROTECTIVE FOOTWEAR

IF MAJOR EXPOSURE IS POSSIBLE, WEAR SUITABLE PROTECTIVE CLOTHING AND
FOOTWEAR

RESPIRATORY PROTECTION:

IN CASE OF INSUFFICIENT VENTILATION WEAR SUITABLE RESPIRATORY EQUIPMENT

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND
ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS
WARRANT A RESPIRATOR'S USE

HYGIENE MEASURES:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE

PERSONAL PROTECTIVE EQUIPMENT:

CHEMICAL GOGGLES

GLOVES

BOOTS

INGREDIENT(S)	CAS #	ACGIH	OSHA	MEXICO
MONOETHANOLAMINE	141-43-5	6 PPM (STEL)	3 PPM (TWA)	6 PPM (STEL)
		3 PPM (TWA)	6 MG/M3 (TWA)	15 MG/M3 (STEL)
				3 PPM (TWA)
				8 MG/M3 (TWA)
SODIUM HYDROXIDE	1310-73-2	2 MG/M3 (CEILING)	2 MG/M3 (TWA)	2 MG/M3 (CEILING)

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID

APPEARANCE: LIQUID

SPECIFIC GRAVITY: 1.052

pH: 13

DILUTION pH: NO INFORMATION AVAILABLE.

ELEMENTAL PHOSPHORUS: 0% P

DENSITY: 8.77 LBS/GAL

BULK DENSITY: NO INFORMATION AVAILABLE

VAPOR DENSITY: NO INFORMATION AVAILABLE

EVAPORATION RATE: NO INFORMATION AVAILABLE

SOLUBILITY: COMPLETELY SOLUBLE

VOC: 6.7% *

VISCOSITY: NO INFORMATION AVAILABLE

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

PARTITION COEFFICIENT (n-OCTANOL/WATER): NO INFORMATION AVAILABLE

COLOR: OFF-WHITE

ODOR: SOLVENT

BOILING POINT/RANGE: NOT DETERMINED

MELTING POINT/RANGE: NOT DETERMINED

FLASH POINT:

>200 DEG. F

>93.3 DEG. C

DECOMPOSITION TEMPERATURE: NOT DETERMINED

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

* - TITLE 17, CALIFORNIA CODE OF REGULATIONS, DIVISION 3, CHAPTER 1,

SUBCHAPTER 8.5, ARTICLE 2, CONSUMER PRODUCTS, SECTIONS 94508

10. STABILITY AND REACTIVITY



STABILITY: THE PRODUCT IS STABLE

POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: NONE REASONABLY FORESEEABLE.

MATERIALS TO AVOID:

ACIDS

STRONG OXIDIZING AGENTS

CONDITIONS TO AVOID: DO NOT FREEZE

11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

ORAL LD50 ESTIMATED TO BE BETWEEN 400 - 2000 MG/KG

DERMAL LD50 ESTIMATED TO BE >2000 MG/KG

COMPONENT INFORMATION: SEE SECTION 3

CHRONIC TOXICITY: NONE KNOWN

SPECIFIC EFFECTS:

CARCINOGENIC EFFECTS: NONE KNOWN

MUTAGENIC EFFECTS: NONE KNOWN

REPRODUCTIVE TOXICITY: NONE KNOWN

TARGET ORGAN EFFECTS: NONE KNOWN

12. ECOLOGICAL INFORMATION



ENVIRONMENTAL INFORMATION: NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS



WASTE FROM RESIDUES / UNUSED PRODUCTS:

UNDILUTED PRODUCT IS REGULATED UNDER ENVIRONMENTAL AND TRANSPORTATION LAWS
AS A CORROSIVE WASTE

DISPOSE OF ACCORDING TO ALL FEDERAL, STATE AND LOCAL APPLICABLE REGULATIONS

RCRA HAZARD CLASS: D002

14. TRANSPORT INFORMATION



DOT/TDG:

PLEASE REFER TO THE BILL OF LADING/RECEIVING DOCUMENTS FOR UP TO DATE
SHIPPING INFORMATION

15. REGULATORY INFORMATION



INTERNATIONAL INVENTORIES:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE FOLLOWING INVENTORIES:

U.S.A. (TSCA).

U.S. REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER
CALIFORNIA'S PROPOSITION 65

SARA 311/312 HAZARD CATEGORIES:

IMMEDIATE (X)

DELAYED ()

FIRE ()

REACTIVITY ()

SUDDEN RELEASE OF PRESSURE ()

CANADA:

WHMIS HAZARD CLASS: NOT FOR SALE IN CANADA.

STATE RIGHT TO KNOW:

INGREDIENT(S)	CAS #	NJRTK	MARTK	PARTK	RIRTK
MONOETHANOLAMINE	141-43-5	X	X	X	X
WATER	7732-18-5				
SODIUM HYDROXIDE	1310-73-2	X	X	X	X
SODIUM XYLENE SULFONATE	1300-72-7				
DIETHYLENE GLYCOL BUTYL ETHER	112-34-5	X		X	
BENZYL ALCOHOL	100-51-6	X	X	X	

CERCLA/SARA:

INGREDIENT(S)	CAS #	WEIGHT %	CERCLA/SARA RQ (LBS)	SECTION 302 TPQ (LBS)	SECTION 313
SODIUM HYDROXIDE	1310-73-2	1 - 5%	1000		
DIETHYLENE GLYCOL BUTYL ETHER	112-34-5	1 - 5%			X

INGREDIENT(S)	CAA HAP	CAA ODS	CWA PRIORITY POLLUTANTS
DIETHYLENE GLYCOL BUTYL ETHER	X		

16. OTHER INFORMATION



HMIS:

HEALTH 3
FIRE HAZARD 0
REACTIVITY 0

NFPA:

HEALTH 3
FLAMMABILITY 0
INSTABILITY 0

REASON FOR REVISION: NOT APPLICABLE

PREPARED BY: NAPRAC

ADDITIONAL ADVICE: NONE

NOTICE TO READER:

THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS RESPONSIBLE TO EVALUATE ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS.

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MSDS

Common Name: TOUGH GUY CITRUS FOAMING OVEN CLEANER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 8/30/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2DBX5**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

HMIS (R*) :

HEALTH 3

FLAMMABILITY 1

REACTIVITY 1

PERSONAL PROTECTION B

IDENTITY: TOUGH GUY CITRUS FOAMING OVEN CLEANER

PART NUMBER: 2DBX5

NOTE:

BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

SECTION 1: COMPANY IDENTIFICATION



MANUFACTURED FOR: W.W. GRAINGER, INC.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):

100 GRAINGER PARKWAY
LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

SECTION 2: INGREDIENTS/IDENTITY INFORMATION



COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
WATER	7732-18-5	NONE	NONE		60 - 100%
POTASSIUM HYDROXIDE	1310-58-3	NONE	NONE	2 MG/M3 (CEILING)	7 - 13%
BUTOXYLDIGLYCOL	112-34-5	NONE	NONE		3 - 7%
ISOBUTANE	75-28-5	800 PPM	800 PPM		3 - 7%
D'LIMONENE (R-P-MENTHA-1, 8-DIENE)	5989-27-5	NONE	NONE	30 PPM (MANU.)	1 - 5%
PROPANE	74-98-6	1000 PPM	2500 PPM		0.5 - 1.5%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

SECTION 3: HAZARDS IDENTIFICATION



ROUTE(S) OF ENTRY:

EYES?: YES

INHALATION?: YES

SKIN?: YES

INGESTION?: YES

ACUTE HEALTH HAZARDS:

DANGER:

CORROSIVE (CONTAINS POTASSIUM HYDROXIDE). MAY BE HARMFUL OR FATAL IF SWALLOWED. CAUSES BURNS TO EYES AND SKIN WITH DIRECT CONTACT. MAY CAUSE RESPIRATORY TRACT IRRITATION. USE PROPER CHEMICAL HYGIENE TO AVOID THESE HAZARDS.

CHRONIC HEALTH HAZARDS: NONE KNOWN

CARCINOGENICITY:

CHEMICAL: NONE

OSHA: NO

NTP: NO

IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

BURNING OR TEARING IN EYES. IRRITATION OF NOSE AND THROAT. REDNESS, IRRITATION OR SLICK FEELING ON SKIN. NAUSEA, LOSS OF COORDINATION, FATIGUE MAY OCCUR FROM EXCESSIVE INHALATION OF FUMES.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING SKIN AND LUNG DISORDERS (I.E. - ASTHMA) CAN BE EFFECTED BY PROLONGED OR REPEATED OCCUPATIONAL OVEREXPOSURE.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES**EYES:**

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION:

CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. DO NOT INDUCE VOMITING UNLESS DIRECTED BY A PHYSICIAN. RINSE OUT MOUTH WITH WATER. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER AND SEEK IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

INHALATION:

GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

SKIN:

FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION ARISES AND PERSISTS, SEEK MEDICAL ATTENTION.

SECTION 5: FIRE FIGHTING MEASURES

USA FLAME PROJECTION TEST: 0" (EXTINGUISHES FLAME) NON-FLAMMABLE

FLAMMABLE LIMITS: NO DATA

LEL: NO DATA

UEL: NO DATA

EXTINGUISHING MEDIA:

NOT USUALLY NECESSARY AS THIS PRODUCT DOES NOT READILY SUPPORT COMBUSTION. USE EXTINGUISHING AGENT SUITABLE TO FUEL SOURCE.

SPECIAL FIRE FIGHTING PROCEDURES:

KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT RUNOFF FROM ENTERING SEWERS AND PUBLIC WATERWAYS. WEAR SCBA IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION:

CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF SILICON AND NITROGEN, AND HYDROGEN.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F. CORROSIVE CONTENTS.

SECTION 6: ACCIDENTAL RELEASE MEASURES**SMALL SPILL:**

WIPE UP SMALL RELEASES WITH A DRY ABSORBENT CLOTH OR OTHER ABSORBENT

MATERIAL.

LARGE SPILL:

ABSORB LIQUID WITH VERMICULITE, ABSORBENT CLOTH, OR OTHER ABSORBENT MATERIAL. PREVENT MATERIAL FROM ENTERING SEWERS OR DRAINS. VENTILATE AREA AND BLOCK TRAFFIC. TRANSFER CONTAMINATED MATERIAL INTO SUITABLE CONTAINER FOR PROPER DISPOSAL.

SECTION 7: HANDLING AND STORAGE



HANDLING:

DO NOT GET IN EYES, ON SKIN OR CLOTHING. DO NOT SWALLOW. DO NOT INHALE MIST OR VAPORS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. DIRECT SPRAY AWAY FROM FACE. DO NOT USE IN OR AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, ETC.

STORAGE:

FOLLOW LABEL DIRECTIONS CAREFULLY. KEEP OUT OF REACH OF CHILDREN. STORE IN A COOL (UNDER 120 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME, AND DIRECT SUNLIGHT. REPLACE CAP WHEN NOT IN USE.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION



EYE PROTECTION: YES, SAFETY GLASSES OR GOGGLES (ANSI Z87).

SKIN PROTECTION: YES, IMPERVIOUS.

RESPIRATORY PROTECTIONS:

NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS:

VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES



APPEARANCE AND ODOR:

VISCOUS TAN LIQUID WITH A CITRUS SCENT IN AN AEROSOL CAN.

pH: 13.5 +/- 0.5

SPECIFIC GRAVITY (70 DEG. F): 1.040

BOILING POINT: 212 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 60 +/- 10

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: COMPLETE

VOLATILE ORGANIC COMPOUNDS (VOCS):

78.5 GRAMS PER LITER OR 7.9% BY WEIGHT VOCS

SECTION 10: STABILITY AND REACTIVITY



HAZARDOUS POLYMERIZATION:

THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF SILICON AND NITROGEN, AND HYDROGEN.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG ACIDS, REDUCING AND OXIDIZING AGENTS; ACRYLONITRILE, CHLORINATED HYDROCARBONS, CHLORINE DIOXIDE, MALEIC ANHYDRIDE, NITROETHANE, NITROPARAFFINS, 2-NITROPHENOL, NITROPROPANE, PHOSPHORUS, POTASSIUM PERSULFATE, TETRAHYDROFURAN AND HYDROXYL COMPOUNDS.

SECTION 11: TOXICOLOGICAL INFORMATION



NO DATA

SECTION 12: ECOLOGICAL INFORMATION



NO DATA

SECTION 13: DISPOSAL CONSIDERATION



DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA WASTE INFORMATION:

IF THIS PRODUCT BECOMES A WASTE, IT WOULD BE A HAZARDOUS WASTE (D002) AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR TO DISPOSAL.

SECTION 14: TRANSPORT INFORMATION



DOT INFORMATION - 49 CFR 172.101:

PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY

HAZARD CLASS: ORM-D

IDENTIFICATION NUMBER: NONE

PACKING GROUP: NONE

WATER TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS

HAZARD CLASS: 2

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

AIR TRANSPORTATION:
PROPER SHIPPING DESCRIPTION: FORBIDDEN IN ALL AIRCRAFT.
HAZARD CLASS: N/A
IDENTIFICATION NUMBER: N/A
PACKING GROUP: N/A
MARINE POLLUTANTS: NONE

SECTION 15: REGULATORY INFORMATION



US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:
ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A): NONE LISTED

SARA 313 COMPONENTS - 40 CFR 372.65:

BUTOXYLDIGLYCOL	(CAS: 112-34-5)	4.75%
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STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65:

WARNING:
THIS PRODUCT CONTAINS TRACE CHEMICALS (ETHYLENE OXIDE AND PROPYLENE OXIDE) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, AND/OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

SECTION 16: ADDITIONAL INFORMATION



DATE PREPARED: 08/30/07

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY. FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

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MSDS

Common Name: TOUGH GUY STAINLESS STEEL CLEANER & POLISH**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 8/30/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2DBY3**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

HMIS (R*) :

HEALTH 1

FLAMMABILITY 2

REACTIVITY 0

PERSONAL PROTECTION B

IDENTITY: TOUGH GUY STAINLESS STEEL CLEANER & POLISH

PART NUMBER: 2DBY3

NOTE:

BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

SECTION 1: COMPANY IDENTIFICATION



MANUFACTURED FOR: W.W. GRAINGER, INC.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):

100 GRAINGER PARKWAY
LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

SECTION 2: INGREDIENTS/IDENTITY INFORMATION



COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
ISOPARAFFINIC HYDROCARBON (MIST)	64742-47-8	5 MG/M3	5 MG/M3		60 - 100%
WHITE MINERAL OIL (MIST)	8042-47-5	5 MG/M3	5 MG/M3		15 - 40%
PROPANE	74-98-6	1000 PPM	ASPHYXIAN		5 - 10%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

SECTION 3: HAZARDS IDENTIFICATION



ROUTE(S) OF ENTRY:

EYES?: YES

INHALATION?: YES

SKIN?: YES

INGESTION?: YES

ACUTE HEALTH HAZARDS:

CAUTION. COMBUSTIBLE LIQUID AND VAPOR. MAY CAUSE EYE AND SKIN IRRITATION. CAUSES IRRITATION OF THE DIGESTIVE TRACT. INHALING EXCESSIVE CONCENTRATION OF VAPORS MAY CAUSE HEADACHES, STUPOR, IRRITATION OF THROAT AND EYES, AND KIDNEY EFFECTS. CONTENTS UNDER PRESSURE. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES WHEN USING THIS PRODUCT.

CHRONIC HEALTH HAZARDS: NONE KNOWN

CARCINOGENICITY:

CHEMICAL: NONE

OSHA: NO

NTP: NO

IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

REDNESS, TEARING OR IRRITATION OF EYES. DROWSINESS, DIZZINESS, NAUSEA, LOSS OF COORDINATION AND FATIGUE. DRYING AND CRACKING OF SKIN. THROAT IRRITATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING SKIN, LUNG, OR STOMACH DISORDERS.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES



EYES:

FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. SEE A PHYSICIAN IMMEDIATELY.

INGESTION:

NOT A LIKELY EXPOSURE ROUTE. IF A LARGE QUANTITY OF LIQUID IS SWALLOWED, DO NOT INDUCE VOMITING, CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

INHALATION:

IF OVEREXPOSED MOVE INTO FRESH AIR. IF SYMPTOMS DEVELOP SEEK MEDICAL ATTENTION.

SKIN:

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES.

SECTION 5: FIRE FIGHTING MEASURES



USA FLAME PROJECTION TEST (ASTM D-3065): 12", NO FLASHBACK, FLAMMABLE

FLAMMABLE LIMITS: NO DATA

LEL: NO DATA

UEL: NO DATA

EXTINGUISHING MEDIA:

TREAT AS AN OIL FIRE. USE CARBON DIOXIDE, DRY CHEMICAL OR FOAM. WATER MAY CAUSE FIRE TO SPREAD.

SPECIAL FIRE FIGHTING PROCEDURES:

USE WATER SPRAY TO KEEP CONTAINERS COOL AND VAPORS DOWN. DO NOT ALLOW RUNOFF TO ENTER SEWERS OR PUBLIC WATERCOURSES. WEAR SELF-CONTAINED BREATHING APPARATUS IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION: CARBON MONOXIDE, CARBON DIOXIDE.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F.

SECTION 6: ACCIDENTAL RELEASE MEASURES



SMALL SPILL:

WIPE UP SMALL RELEASES WITH A DRY ABSORBENT CLOTH OR OTHER ABSORBENT MATERIAL.

LARGE SPILL:

ABSORB LIQUID WITH VERMICULITE, ABSORBENT CLOTH, OR OTHER ABSORBENT MATERIAL. PREVENT MATERIAL FROM ENTERING SEWERS OR DRAINS. VENTILATE AREA AND BLOCK TRAFFIC. TRANSFER CONTAMINATED MATERIAL INTO SUITABLE CONTAINER FOR PROPER DISPOSAL.

SECTION 7: HANDLING AND STORAGE



HANDLING:

DO NOT GET IN EYES. AVOID CONTACT WITH SKIN AND CLOTHING. DO NOT INHALE MIST OR VAPORS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. DO NOT SWALLOW. WASH THOROUGHLY AFTER HANDLING. DIRECT SPRAY AWAY FROM FACE. USE WITH ADEQUATE VENTILATION. DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, AND OPEN FLAME, ETC. CONTENTS UNDER PRESSURE. DO NOT INCINERATE OR SPRAY INTO OPEN FLAME.

STORAGE:

FOLLOW LABEL DIRECTIONS CAREFULLY. KEEP OUT OF REACH OF CHILDREN. STORE IN A DRY LOCATION. STORE AWAY FROM HEAT, AND OPEN FLAME. DO NOT PUNCTURE CONTAINER. DO NOT STORE AT TEMPERATURES EXCEEDING 120 DEG. F. REPLACE CAP WHEN NOT IN USE.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION: YES, APPROVED SAFETY GLASSES OR GOGGLES (ANSI Z87).

SKIN PROTECTION: YES, IF NEEDED TO PREVENT DIRECT CONTACT.

RESPIRATORY PROTECTIONS:

NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS:

VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE AND ODOR:**

CLEAR COLORLESS LIQUID WITH A LEMON SCENT IN AN AEROSOL CAN.

pH: NOT APPLICABLE

SPECIFIC GRAVITY (70 DEG. F): 0.800

BOILING POINT: 420 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 50 +/- 10

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: NEGLIGIBLE

VOLATILE ORGANIC COMPOUNDS (VOCS):

77 GRAMS PER LITER OR 9.9% BY WEIGHT VOCS

SECTION 10: STABILITY AND REACTIVITY**HAZARDOUS POLYMERIZATION:**

THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG ACIDS, ALKALIS AND OXIDIZERS.

SECTION 11: TOXICOLOGICAL INFORMATION



NO DATA

SECTION 12: ECOLOGICAL INFORMATION



NO DATA

SECTION 13: DISPOSAL CONSIDERATION



DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA WASTE INFORMATION

IF THIS PRODUCT BECOMES A WASTE, IT WOULD NOT BE A HAZARDOUS WASTE AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR TO DISPOSAL.

SECTION 14: TRANSPORT INFORMATION



DOT INFORMATION - 49 CFR 172.101:

PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY

HAZARD CLASS: ORM-D

IDENTIFICATION NUMBER: NONE

PACKING GROUP: NONE

WATER TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS

HAZARD CLASS: 2

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

AIR TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS, FLAMMABLE

HAZARD CLASS: 2.1

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

MARINE POLLUTANTS: NONE

SECTION 15: REGULATORY INFORMATION



US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A): NONE LISTED

SARA 313 COMPONENTS - 40 CFR 372.65: NONE

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65: NONE

SECTION 16: ADDITIONAL INFORMATION

DATE PREPARED: 08/30/07

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY. FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

[Close this window](#)

MSDS

Common Name: TOUGH GUY MORNING ORCHARD AIR FRESHENER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 8/30/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2DBZ1**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

HMIS (R*) :

HEALTH	1
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	NONE

IDENTITY: TOUGH GUY MORNING ORCHARD AIR FRESHENER**PART NUMBER:** 2DBZ1

NOTE:

BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

SECTION 1: COMPANY IDENTIFICATION

**MANUFACTURED FOR:** W.W. GRAINGER, INC.**ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):**

100 GRAINGER PARKWAY
LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

SECTION 2: INGREDIENTS/IDENTITY INFORMATION



COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
ACETONE	67-64-1	1000 PPM	500 PPM	STEL: 750 PPM	40 - 70%
ISOBUTANE	75-28-5	800 PPM	800 PPM		10 - 30%
PROPANE	74-98-6	1000 PPM	2500 PPM		5 - 10%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

SECTION 3: HAZARDS IDENTIFICATION



ROUTE(S) OF ENTRY:

EYES?: YES

INHALATION?: YES

SKIN?: YES

INGESTION?: YES

ACUTE HEALTH HAZARDS:

WARNING. FLAMMABLE CONTENTS. CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED, BUT THIS IS UNLIKELY AS THE PRODUCT IS A MIST WHEN SPRAYED. INTENTIONAL OVEREXPOSURE TO MIST OR VAPORS MAY RESULT IN ANESTHETIC OR CENTRAL NERVOUS SYSTEM EFFECTS.

CHRONIC HEALTH HAZARDS: NONE KNOWN

CARCINOGENICITY:

CHEMICAL: NONE

OSHA: NO

NTP: NO

IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

IRRITATION OF NOSE, THROAT, SKIN OR EYES. DRYNESS OF SKIN. DROWSINESS, DIZZINESS, FATIGUE OR LOSS OF COORDINATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING SKIN, LIVER OR KIDNEY DISORDERS MAY BE ADVERSELY AFFECTED. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS.



SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYES:

FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: UNLIKELY AS THIS PRODUCT IS A MIST WHEN USED.

INHALATION:

GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

SKIN:

WASH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION ARISES AND PERSISTS, CALL A PHYSICIAN.

SECTION 5: FIRE FIGHTING MEASURES



USA FLAME PROJECTION TEST (ASTM D-3065): 10", NO FLASHBACK

FLAMMABLE LIMITS: NO DATA

LEL: NO DATA

UEL: NO DATA

EXTINGUISHING MEDIA:

WATER MAY BE INEFFECTIVE. USE CARBON DIOXIDE, DRY CHEMICAL, FOAM OR FOG. CONCENTRATE IS HIGHLY VOLATILE AND FLAMMABLE. VAPORS MAY TRAVEL ALONG GROUND TO IGNITION SOURCES.

SPECIAL FIRE FIGHTING PROCEDURES:

USE WATER SPRAY TO KEEP CONTAINERS COOL AND VAPORS DOWN. DO NOT ALLOW RUNOFF TO ENTER SEWERS OR PUBLIC WATERCOURSES. WEAR SELF-CONTAINED BREATHING APPARATUS IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION:

CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F. CONTENTS ARE HIGHLY VOLATILE AND FLAMMABLE.

SECTION 6: ACCIDENTAL RELEASE MEASURES



SMALL SPILL: CAUTION, SLIP HAZARD. WIPE UP SMALL SPILLS PROMPTLY.

LARGE SPILL:

ISOLATE TRAFFIC AND VENTILATE AREA. ELIMINATE ALL IGNITION SOURCES. WEAR PROTECTIVE GEAR AS NECESSARY. DIKE TO PREVENT SPREAD. PICK UP WITH AN ABSORBENT MATERIAL AND PUT IN A SUITABLE CONTAINER FOR PROPER DISPOSAL. CLEAN ANY RESIDUES FROM LARGE SPILLS WITH A SUITABLE SOAP OR DETERGENT.

SECTION 7: HANDLING AND STORAGE



HANDLING:

DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, STATIC ELECTRICITY, WELDING ARCS, ETC. DO NOT SMOKE WHILE USING. DO NOT GET IN EYES. AVOID CONTACT WITH SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. AVOID DIRECTLY INHALING MISTS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. SPRAY CAN IN UPRIGHT POSITION ONLY. DIRECT SPRAY AWAY FROM FACE. DO NOT PUNCTURE OR INCINERATE CONTAINER.

STORAGE:

STORE IN A COOL (UNDER 120 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME AND DIRECT SUNLIGHT. KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**EYE PROTECTION:**

NOT USUALLY NEEDED. WEAR APPROVED SAFETY GLASSES OR GOGGLES IF DIRECT CONTACT IS POSSIBLE.

SKIN PROTECTION:

NOT USUALLY NEEDED. WEAR GLOVES IF DIRECT CONTACT IS POSSIBLE.

RESPIRATORY PROTECTIONS:

NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS:

VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE AND ODOR:**

CLEAR COLORLESS LIQUID WITH A FRESH SCENT IN AN AEROSOL CAN.

pH: NOT APPLICABLE

SPECIFIC GRAVITY (70 DEG. F): 0.792

BOILING POINT: 133 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 40 +/- 5

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: COMPLETE

VOLATILE ORGANIC COMPOUNDS (VOCS):

129.5 GRAMS PER LITER OR 30% BY WEIGHT VOCS

SECTION 10: STABILITY AND REACTIVITY**HAZARDOUS POLYMERIZATION:**

THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS AND MINERAL ACIDS, PERMANGANATES, CHROMATES AND CHLORINE.

SECTION 11: TOXICOLOGICAL INFORMATION

NO DATA

SECTION 12: ECOLOGICAL INFORMATION

NO DATA

SECTION 13: DISPOSAL CONSIDERATION

DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA WASTE INFORMATION:

IF THIS PRODUCT BECOMES A WASTE, IT WOULD A HAZARDOUS WASTE (D001) AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR TO DISPOSAL.

SECTION 14: TRANSPORT INFORMATION

DOT INFORMATION - 49 CFR 172.101:

PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY

HAZARD CLASS: ORM-D

IDENTIFICATION NUMBER: NONE

PACKING GROUP: NONE

WATER TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS

HAZARD CLASS: 2

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

AIR TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS, FLAMMABLE

HAZARD CLASS: 2.1

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

MARINE POLLUTANTS: NONE

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A):

ACETONE (CAS# 67-64-1) 5000 LBS.

SARA 313 COMPONENTS - 40 CFR 372.65: NONE

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT CONTAINS TRACE CHEMICALS (BENZENE) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REPRODUCTIVE HARM.

SECTION 16: ADDITIONAL INFORMATION

DATE PREPARED: 08/30/07

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY. FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

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MSDS

Common Name: TOUGH GUY BAHAMA BREEZE AIR FRESHENER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 8/30/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2DBZ3**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

HMIS (R*) :

HEALTH	1
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	NONE

IDENTITY: TOUGH GUY BAHAMA BREEZE AIR FRESHENER**PART NUMBER:** 2DBZ3

NOTE:

BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

SECTION 1: COMPANY IDENTIFICATION

**MANUFACTURED FOR:** W.W. GRAINGER, INC.**ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):**

100 GRAINGER PARKWAY
LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

SECTION 2: INGREDIENTS/IDENTITY INFORMATION



COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
ACETONE	67-64-1	1000 PPM	500 PPM	STEL: 750 PPM	40 - 70%
ISOBUTANE	75-28-5	800 PPM	800 PPM		10 - 30%
PROPANE	74-98-6	1000 PPM	2500 PPM		5 - 10%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

SECTION 3: HAZARDS IDENTIFICATION



ROUTE(S) OF ENTRY:

EYES?: YES

INHALATION?: YES

SKIN?: YES

INGESTION?: YES

ACUTE HEALTH HAZARDS:

WARNING. FLAMMABLE CONTENTS. CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED, BUT THIS IS UNLIKELY AS THE PRODUCT IS A MIST WHEN SPRAYED. INTENTIONAL OVEREXPOSURE TO MIST OR VAPORS MAY RESULT IN ANESTHETIC OR CENTRAL NERVOUS SYSTEM EFFECTS.

CHRONIC HEALTH HAZARDS: NONE KNOWN

CARCINOGENICITY:

CHEMICAL: NONE

OSHA: NO

NTP: NO

IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

IRRITATION OF NOSE, THROAT, SKIN OR EYES. DRYNESS OF SKIN. DROWSINESS, DIZZINESS, FATIGUE OR LOSS OF COORDINATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING SKIN, LIVER OR KIDNEY DISORDERS MAY BE ADVERSELY AFFECTED. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS.



SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYES:

FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: UNLIKELY AS THIS PRODUCT IS A MIST WHEN USED.

INHALATION:

GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

SKIN:

WASH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION ARISES AND PERSISTS, CALL A PHYSICIAN.

SECTION 5: FIRE FIGHTING MEASURES



USA FLAME PROJECTION TEST (ASTM D-3065): 10", NO FLASHBACK

FLAMMABLE LIMITS: NO DATA

LEL: NO DATA

UEL: NO DATA

EXTINGUISHING MEDIA:

WATER MAY BE INEFFECTIVE. USE CARBON DIOXIDE, DRY CHEMICAL, FOAM OR FOG. CONCENTRATE IS HIGHLY VOLATILE AND FLAMMABLE. VAPORS MAY TRAVEL ALONG GROUND TO IGNITION SOURCES.

SPECIAL FIRE FIGHTING PROCEDURES:

USE WATER SPRAY TO KEEP CONTAINERS COOL AND VAPORS DOWN. DO NOT ALLOW RUNOFF TO ENTER SEWERS OR PUBLIC WATERCOURSES. WEAR SELF-CONTAINED BREATHING APPARATUS IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION:

CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F. CONTENTS ARE HIGHLY VOLATILE AND FLAMMABLE.

SECTION 6: ACCIDENTAL RELEASE MEASURES



SMALL SPILL: CAUTION, SLIP HAZARD. WIPE UP SMALL SPILLS PROMPTLY.

LARGE SPILL:

ISOLATE TRAFFIC AND VENTILATE AREA. ELIMINATE ALL IGNITION SOURCES. WEAR PROTECTIVE GEAR AS NECESSARY. DIKE TO PREVENT SPREAD. PICK UP WITH AN ABSORBENT MATERIAL AND PUT IN A SUITABLE CONTAINER FOR PROPER DISPOSAL. CLEAN ANY RESIDUES FROM LARGE SPILLS WITH A SUITABLE SOAP OR DETERGENT.

SECTION 7: HANDLING AND STORAGE



HANDLING:

DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, STATIC ELECTRICITY, WELDING ARCS, ETC. DO NOT SMOKE WHILE USING. DO NOT GET IN EYES. AVOID CONTACT WITH SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. AVOID DIRECTLY INHALING MISTS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. SPRAY CAN IN UPRIGHT POSITION ONLY. DIRECT SPRAY AWAY FROM FACE. DO NOT PUNCTURE OR INCINERATE CONTAINER.

STORAGE:

STORE IN A COOL (UNDER 120 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME AND DIRECT SUNLIGHT. KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**EYE PROTECTION:**

NOT USUALLY NEEDED. WEAR APPROVED SAFETY GLASSES OR GOGGLES IF DIRECT CONTACT IS POSSIBLE.

SKIN PROTECTION:

NOT USUALLY NEEDED. WEAR GLOVES IF DIRECT CONTACT IS POSSIBLE.

RESPIRATORY PROTECTIONS:

NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS:

VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE AND ODOR:**

CLEAR COLORLESS LIQUID WITH A FRESH SCENT IN AN AEROSOL CAN.

pH: NOT APPLICABLE

SPECIFIC GRAVITY (70 DEG. F): 0.792

BOILING POINT: 133 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 40 +/- 5

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: COMPLETE

VOLATILE ORGANIC COMPOUNDS (VOCS):

129.5 GRAMS PER LITER OR 30% BY WEIGHT VOCS

SECTION 10: STABILITY AND REACTIVITY**HAZARDOUS POLYMERIZATION:**

THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION
BY-PRODUCTS.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):
STRONG OXIDIZERS AND MINERAL ACIDS, PERMANGANATES, CHROMATES AND CHLORINE.

SECTION 11: TOXICOLOGICAL INFORMATION



NO DATA

SECTION 12: ECOLOGICAL INFORMATION



NO DATA

SECTION 13: DISPOSAL CONSIDERATION



DISPOSAL METHOD:
DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL
REGULATIONS.

RCRA WASTE INFORMATION:
IF THIS PRODUCT BECOMES A WASTE, IT WOULD A HAZARDOUS WASTE (D001) AS
DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY
CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR
TO DISPOSAL.

SECTION 14: TRANSPORT INFORMATION



DOT INFORMATION - 49 CFR 172.101:
PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY
HAZARD CLASS: ORM-D
IDENTIFICATION NUMBER: NONE
PACKING GROUP: NONE

WATER TRANSPORTATION:
PROPER SHIPPING DESCRIPTION: AEROSOLS
HAZARD CLASS: 2
IDENTIFICATION NUMBER: UN 1950
PACKING GROUP: NONE

AIR TRANSPORTATION:
PROPER SHIPPING DESCRIPTION: AEROSOLS, FLAMMABLE
HAZARD CLASS: 2.1
IDENTIFICATION NUMBER: UN 1950
PACKING GROUP: NONE

MARINE POLLUTANTS: NONE

SECTION 15: REGULATORY INFORMATION



US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A):

ACETONE (CAS# 67-64-1) 5000 LBS.

SARA 313 COMPONENTS - 40 CFR 372.65: NONE

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT CONTAINS TRACE CHEMICALS (BENZENE) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REPRODUCTIVE HARM.

SECTION 16: ADDITIONAL INFORMATION

DATE PREPARED: 08/30/07

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY. FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

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MSDS

Common Name: DRY BREEZE AIR FRESHENERS, 70020, 70120, 70220, 70320, 70420, 70520, 70620, 7072**Manufacturer:** ITW DYMON**MSDS Revision Date:** 11/5/2009**MSDS Format:** No Format Specified**Grainger Item Number(s):** 20J970, 20J971, 20J972, 20J973, 20J974, 20J975, 2DBZ5, 5MP26, 5MP27, 5MP28**Manufacturer Model Number(s):**

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ITW DYMON

MATERIAL SAFETY DATA SHEET

PREPARED: 05 NOVEMBER 2009

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION



PRODUCT(S): DRY BREEZE(R*) AIR FRESHENERS

FORMULA: A700 SERIES

PART NUMBER(S):

70020, 70120, 70220, 70320, 70420, 70520, 70620, 70720, 70820, 70920, 70120,
71220, 71320, 72020 72220

COMPANY NAME & ADDRESS:

ITW DYMON

805 E. OLD 56 HWY.

OLATHE, KS 66061

800-443-9536 (8 A.M. - 5 P.M. WEEKDAYS, CDT)

EMERGENCY NUMBERS:

IN CASE OF EMERGENCY, CALL INFOTRAC @: 1-800-535-5053, 24 HRS.

INTERNATIONAL EMERGENCY NUMBER: 352-323-3500

POISON CONTROL CENTER: 1-800-222-1222

MATERIAL SAFETY DATA SHEETS: WWW.DYMON.COM

SECTION 2 - HAZARDS IDENTIFICATION**WARNING.**

FLAMMABLE CONTENTS. CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. MAY BE HARMFUL IF INHALED. INTENTIONAL OVEREXPOSURE TO MIST OF VAPORS MAY RESULT IN ANESTHETIC OR CENTRAL NERVOUS SYSTEM EFFECTS. CONTENTS UNDER PRESSURE.

POTENTIAL HEALTH EFFECTS:

EYES: CAUSES EYE IRRITATION.

SKIN: MAY CAUSE SKIN IRRITATION.

INHALATION:

MAY BE HARMFUL IF INHALED-UNLIKELY AS THE PRODUCT IS A MIST WHEN SPRAYED.

INGESTION: NOT A LIKELY EXPOSURE ROUTE - PRODUCT IS A MIST.

SIGNS/SYMPTOMS OF EXPOSURE:

IRRITATION OF NOSE, THROAT, SKIN OR EYES. DRYNESS OF SKIN. DROWSINESS, DIZZINESS, FATIGUE OR LOSS OF COORDINATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING SKIN, LIVER OR KIDNEY DISORDERS MAY BE ADVERSELY AFFECTED.

FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS.

HMIS RATING:

HEALTH	1
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	NONE

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENT RANGE
ACETONE	67-64-1	60 - 100
ISOBUTANE	75-28-5	10 - 30
PROPANE	74-98-6	5 - 10

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

SECTION 4 - FIRST AID MEASURES

EYES:

FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK MEDICAL ATTENTION IMMEDIATELY.

SKIN:

WASH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION ARISES AND PERSISTS SEEK MEDICAL ATTENTION.

INHALATION:

MOVE TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

INGESTION: UNLIKELY AS THIS PRODUCT IS A MIST WHEN SPRAYED.

SECTION 5 - FIRE FIGHTING MEASURES

FLASHPOINT (PMCC): <2 DEG. F

EXTINGUISHING MEDIA:

WATER MAY BE INEFFECTIVE. USE CARBON DIOXIDE, DRY CHEMICAL, FOAM OR FOG. CONCENTRATE IS HIGHLY VOLATILE AND FLAMMABLE. VAPORS MAY TRAVEL ALONG GROUND TO IGNITION SOURCES.

SPECIAL FIRE FIGHTING PROCEDURES:

KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT RUNOFF FROM ENTERING SEWERS AND PUBLIC WATERWAYS. WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA) IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION:

OXIDES OF CARBON, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

SECTION 6 - ACCIDENTAL RELEASE MEASURES**SMALL SPILL:**

CAUTION - SLIP HAZARD. WIPE UP SMALL RELEASES WITH A DRY ABSORBENT CLOTH OR OTHER ABSORBENT MATERIAL.

LARGE SPILL:

VENTILATE AREA AND BLOCK TRAFFIC. ELIMINATE ALL IGNITION SOURCES. ABSORB LIQUID WITH VERMICULITE, ABSORBENT CLOTH, OR OTHER ABSORBENT MATERIAL. PREVENT MATERIAL FROM ENTERING SEWERS AND DRAINS. TRANSFER CONTAMINATED MATERIAL INTO SUITABLE CONTAINER FOR PROPER DISPOSAL. CLEAN ANY SLIPPERY RESIDUES WITH SUITABLE SOAP OR DETERGENT.

SECTION 7 - HANDLING AND STORAGE**HANDLING:**

DO NOT GET INTO EYES. AVOID CONTACT WITH SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. AVOID DIRECTLY INHALING MISTS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. DIRECT SPRAY AWAY FROM FACE. SPRAY CAN IN UPRIGHT POSITION ONLY. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES WHEN HANDLING THIS MATERIAL. USE FROM ORIGINAL CONTAINER ONLY AND FOLLOW LABEL DIRECTIONS CAREFULLY.

STORAGE:

KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME AND DIRECT SUNLIGHT. STORE IN A COOL

(LESS THAN 120 DEG. F) WELL-VENTILATED AREA. KEEP OUT OF REACH OF CHILDREN.
DO NOT PUNCTURE OR INCINERATE CONTAINER. REPLACE CAP WHEN NOT IN USE.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION



ENGINEERING CONTROLS:

VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

EXPOSURE LIMITS:

ACETONE (CAS# 67-64-1):

1000 PPM OSHA

500 PPM ACGIH, 750 PPM STEL

ISOBUTANE (CAS# 75-28-5):

800 PPM OSHA

800 PPM ACGIH

PROPANE (CAS# 74-98-6):

1000 PPM OSHA

ASPHYXIAN ACGIH

EYE PROTECTION:

WEAR APPROVED SAFETY GLASSES OR GOGGLES IF DIRECT CONTACT IS POSSIBLE.

SKIN PROTECTION: WEAR APPROVED SAFETY GOGGLES IF DIRECT CONTACT IS POSSIBLE.

RESPIRATORY PROTECTION:

NOT USUALLY NECESSARY. IF VAPORS ARE PRESENT OR IRRITATION IS EXPERIENCED,
USE NIOSH/MSHA APPROVED RESPIRATOR.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES



APPEARANCE AND ODOR:

CLEAR COLORLESS LIQUID WITH VARIOUS SCENTS IN AN AEROSOL CAN.

pH: N/A

BOILING POINT: 133 DEG. F

SPECIFIC GRAVITY: 0.792

VAPOR DENSITY: >1

FLAME PROJECTION: >18

SOLUBILITY IN WATER: MISCIBLE

PRESSURE: 95 PSIG

VOLATILE ORGANIC COMPOUNDS (VOCs): 29.93% BY WEIGHT

SECTION 10 - STABILITY AND REACTIVITY



HAZARDOUS POLYMERIZATION:

THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

OXIDES OF CARBON, SMOKE SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

CHEMICAL STABILITY: STABLE

INCOMPATIBLE MATERIALS:

STRONG OXIDIZERS AND MINERAL ACIDS, PERMANGATES, CHROMATES AND CHLORINE.

SECTION 11 - TOXICOLOGICAL INFORMATION



ACETONE, CAS# 67-64-0:

DERMAL LD50: 20,000 MG/KG RABBIT

ORAL LD50: 5800 MG/KG RAT

INHALATION LC50: 16,000 PPM RAT (4 HR)

SECTION 12 - ECOLOGICAL INFORMATION



NO DATA.

SECTION 13 - DISPOSAL CONSIDERATIONS



DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

WASTE INFORMATION:

IF THIS PRODUCT BECOMES A WASTE, IT WOULD BE A HAZARDOUS WASTE (D001) AS DEFINED BY RCRA (40CFR261). HOWEVER THE WASTE SHOULD BE PROPERLY EVALUATED IN CASE OF MODIFICATION PRIOR TO DISPOSAL.

SECTION 14 - TRANSPORT INFORMATION



THE FOLLOWING TRANSPORTATION INFORMATION IS BASED ON DEPARTMENT OF TRANSPORTATION REGULATIONS FOUND IN 49 CFR. IF SHIPPING THIS PRODUCT BY AIR PLEASE REFER TO INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA) DANGEROUS GOODS REGULATIONS. IF SHIPPING THIS PRODUCT BY OCEAN PLEASE REFER TO INTERNATIONAL MARITIME DANGEROUS GOODS REGULATIONS (IMDG). TO FIND HOW TO SHIP THIS PRODUCT PLEASE REFER TO THE UN# LISTED BELOW.

	UN #	PROPER SHIPPING DESCRIPTION	HAZARD CLASS	PACKING GROUP
DOT INFORMATION	NONE	CONSUMER COMMODITY	ORM-D	NONE

MARINE POLLUTANTS: NONE

SECTION 15 - REGULATORY INFORMATION



US FEDERAL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT (TSCA):

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR EXEMPT FROM LISTING.

CERCLA RQ: NONE

SARA 313 COMPONENTS: NONE

STATE AND LOCAL REGULATIONS:
CALIFORNIA PROPOSITION 65: NONE

SECTION 16 - OTHER INFORMATION



WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

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MSDS

Common Name: TOUGH GUY PEACH AIR FRESHENER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 8/30/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2DBZ7**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

HMIS (R*) :

HEALTH	1
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	NONE

IDENTITY: TOUGH GUY PEACH AIR FRESHENER**PART NUMBER:** 2DBZ7

NOTE:

BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

SECTION 1: COMPANY IDENTIFICATION

**MANUFACTURED FOR:** W.W. GRAINGER, INC.**ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):**

100 GRAINGER PARKWAY
LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

SECTION 2: INGREDIENTS/IDENTITY INFORMATION



COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
ACETONE	67-64-1	1000 PPM	500 PPM	STEL: 750 PPM	40 - 70%
ISOBUTANE	75-28-5	800 PPM	800 PPM		10 - 30%
PROPANE	74-98-6	1000 PPM	2500 PPM		5 - 10%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

SECTION 3: HAZARDS IDENTIFICATION



ROUTE(S) OF ENTRY:

EYES?: YES

INHALATION?: YES

SKIN?: YES

INGESTION?: YES

ACUTE HEALTH HAZARDS:

WARNING. FLAMMABLE CONTENTS. CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED, BUT THIS IS UNLIKELY AS THE PRODUCT IS A MIST WHEN SPRAYED. INTENTIONAL OVEREXPOSURE TO MIST OR VAPORS MAY RESULT IN ANESTHETIC OR CENTRAL NERVOUS SYSTEM EFFECTS.

CHRONIC HEALTH HAZARDS: NONE KNOWN

CARCINOGENICITY:

CHEMICAL: NONE

OSHA: NO

NTP: NO

IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

IRRITATION OF NOSE, THROAT, SKIN OR EYES. DRYNESS OF SKIN. DROWSINESS, DIZZINESS, FATIGUE OR LOSS OF COORDINATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING SKIN, LIVER OR KIDNEY DISORDERS MAY BE ADVERSELY AFFECTED. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS.



SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYES:

FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: UNLIKELY AS THIS PRODUCT IS A MIST WHEN USED.

INHALATION:

GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

SKIN:

WASH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION ARISES AND PERSISTS, CALL A PHYSICIAN.

SECTION 5: FIRE FIGHTING MEASURES



USA FLAME PROJECTION TEST (ASTM D-3065): 10", NO FLASHBACK

FLAMMABLE LIMITS: NO DATA

LEL: NO DATA

UEL: NO DATA

EXTINGUISHING MEDIA:

WATER MAY BE INEFFECTIVE. USE CARBON DIOXIDE, DRY CHEMICAL, FOAM OR FOG. CONCENTRATE IS HIGHLY VOLATILE AND FLAMMABLE. VAPORS MAY TRAVEL ALONG GROUND TO IGNITION SOURCES.

SPECIAL FIRE FIGHTING PROCEDURES:

USE WATER SPRAY TO KEEP CONTAINERS COOL AND VAPORS DOWN. DO NOT ALLOW RUNOFF TO ENTER SEWERS OR PUBLIC WATERCOURSES. WEAR SELF-CONTAINED BREATHING APPARATUS IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION:

CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F. CONTENTS ARE HIGHLY VOLATILE AND FLAMMABLE.

SECTION 6: ACCIDENTAL RELEASE MEASURES



SMALL SPILL: CAUTION, SLIP HAZARD. WIPE UP SMALL SPILLS PROMPTLY.

LARGE SPILL:

ISOLATE TRAFFIC AND VENTILATE AREA. ELIMINATE ALL IGNITION SOURCES. WEAR PROTECTIVE GEAR AS NECESSARY. DIKE TO PREVENT SPREAD. PICK UP WITH AN ABSORBENT MATERIAL AND PUT IN A SUITABLE CONTAINER FOR PROPER DISPOSAL. CLEAN ANY RESIDUES FROM LARGE SPILLS WITH A SUITABLE SOAP OR DETERGENT.

SECTION 7: HANDLING AND STORAGE



HANDLING:

DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, STATIC ELECTRICITY, WELDING ARCS, ETC. DO NOT SMOKE WHILE USING. DO NOT GET IN EYES. AVOID CONTACT WITH SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. AVOID DIRECTLY INHALING MISTS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. SPRAY CAN IN UPRIGHT POSITION ONLY. DIRECT SPRAY AWAY FROM FACE. DO NOT PUNCTURE OR INCINERATE CONTAINER.

STORAGE:

STORE IN A COOL (UNDER 120 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME AND DIRECT SUNLIGHT. KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**EYE PROTECTION:**

NOT USUALLY NEEDED. WEAR APPROVED SAFETY GLASSES OR GOGGLES IF DIRECT CONTACT IS POSSIBLE.

SKIN PROTECTION:

NOT USUALLY NEEDED. WEAR GLOVES IF DIRECT CONTACT IS POSSIBLE.

RESPIRATORY PROTECTIONS:

NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS:

VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE AND ODOR:**

CLEAR COLORLESS LIQUID WITH A FRESH SCENT IN AN AEROSOL CAN.

pH: NOT APPLICABLE

SPECIFIC GRAVITY (70 DEG. F): 0.792

BOILING POINT: 133 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 40 +/- 5

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: COMPLETE

VOLATILE ORGANIC COMPOUNDS (VOCS):

129.5 GRAMS PER LITER OR 30% BY WEIGHT VOCS

SECTION 10: STABILITY AND REACTIVITY**HAZARDOUS POLYMERIZATION:**

THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION
BY-PRODUCTS.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):
STRONG OXIDIZERS AND MINERAL ACIDS, PERMANGANATES, CHROMATES AND CHLORINE.

SECTION 11: TOXICOLOGICAL INFORMATION



NO DATA

SECTION 12: ECOLOGICAL INFORMATION



NO DATA

SECTION 13: DISPOSAL CONSIDERATION



DISPOSAL METHOD:
DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL
REGULATIONS.

RCRA WASTE INFORMATION:
IF THIS PRODUCT BECOMES A WASTE, IT WOULD A HAZARDOUS WASTE (D001) AS
DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY
CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED
PRIOR TO DISPOSAL.

SECTION 14: TRANSPORT INFORMATION



DOT INFORMATION - 49 CFR 172.101:
PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY
HAZARD CLASS: ORM-D
IDENTIFICATION NUMBER: NONE
PACKING GROUP: NONE

WATER TRANSPORTATION:
PROPER SHIPPING DESCRIPTION: AEROSOLS
HAZARD CLASS: 2
IDENTIFICATION NUMBER: UN 1950
PACKING GROUP: NONE

AIR TRANSPORTATION:
PROPER SHIPPING DESCRIPTION: AEROSOLS, FLAMMABLE
HAZARD CLASS: 2.1
IDENTIFICATION NUMBER: UN 1950
PACKING GROUP: NONE
MARINE POLLUTANTS: NONE

SECTION 15: REGULATORY INFORMATION



US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A):

ACETONE (CAS# 67-64-1) 5000 LBS.

SARA 313 COMPONENTS - 40 CFR 372.65: NONE

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT CONTAINS TRACE CHEMICALS (BENZENE) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REPRODUCTIVE HARM.

SECTION 16: ADDITIONAL INFORMATION

DATE PREPARED: 08/30/07

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY. FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

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MSDS

Common Name: TOUGH GUY COOL CUCUMBER MELON AIR FRESHENER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 8/30/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2DBZ9**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

HMIS (R*) :

HEALTH	1
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	NONE

IDENTITY: TOUGH GUY COOL CUCUMBER MELON AIR FRESHENER**PART NUMBER:** 2DBZ9

NOTE:

BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

SECTION 1: COMPANY IDENTIFICATION

**MANUFACTURED FOR:** W.W. GRAINGER, INC.**ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):**

100 GRAINGER PARKWAY
LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

SECTION 2: INGREDIENTS/IDENTITY INFORMATION



COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
ACETONE	67-64-1	1000 PPM	500 PPM	STEL: 750 PPM	40 - 70%
ISOBUTANE	75-28-5	800 PPM	800 PPM		10 - 30%
PROPANE	74-98-6	1000 PPM	2500 PPM		5 - 10%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

SECTION 3: HAZARDS IDENTIFICATION



ROUTE(S) OF ENTRY:

EYES?: YES

INHALATION?: YES

SKIN?: YES

INGESTION?: YES

ACUTE HEALTH HAZARDS:

WARNING.

FLAMMABLE CONTENTS. CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED, BUT THIS IS UNLIKELY AS THE PRODUCT IS A MIST WHEN SPRAYED. INTENTIONAL OVEREXPOSURE TO MIST OR VAPORS MAY RESULT IN ANESTHETIC OR CENTRAL NERVOUS SYSTEM EFFECTS.

CHRONIC HEALTH HAZARDS: NONE KNOWN

CARCINOGENICITY:

CHEMICAL: NONE

OSHA: NO

NTP: NO

IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

IRRITATION OF NOSE, THROAT, SKIN OR EYES. DRYNESS OF SKIN. DROWSINESS, DIZZINESS, FATIGUE OR LOSS OF COORDINATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING SKIN, LIVER OR KIDNEY DISORDERS MAY BE ADVERSELY AFFECTED.

FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES



EYES:

FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: UNLIKELY AS THIS PRODUCT IS A MIST WHEN USED.

INHALATION:

GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

SKIN:

WASH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION ARISES AND PERSISTS, CALL A PHYSICIAN.

SECTION 5: FIRE FIGHTING MEASURES



USA FLAME PROJECTION TEST (ASTM D-3065): 10", NO FLASHBACK

FLAMMABLE LIMITS: NO DATA

LEL: NO DATA

UEL: NO DATA

EXTINGUISHING MEDIA:

WATER MAY BE INEFFECTIVE. USE CARBON DIOXIDE, DRY CHEMICAL, FOAM OR FOG. CONCENTRATE IS HIGHLY VOLATILE AND FLAMMABLE. VAPORS MAY TRAVEL ALONG GROUND TO IGNITION SOURCES.

SPECIAL FIRE FIGHTING PROCEDURES:

USE WATER SPRAY TO KEEP CONTAINERS COOL AND VAPORS DOWN. DO NOT ALLOW RUNOFF TO ENTER SEWERS OR PUBLIC WATERCOURSES. WEAR SELF-CONTAINED BREATHING APPARATUS IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION:

CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F. CONTENTS ARE HIGHLY VOLATILE AND FLAMMABLE.

SECTION 6: ACCIDENTAL RELEASE MEASURES



SMALL SPILL: CAUTION, SLIP HAZARD. WIPE UP SMALL SPILLS PROMPTLY.

LARGE SPILL:

ISOLATE TRAFFIC AND VENTILATE AREA. ELIMINATE ALL IGNITION SOURCES. WEAR PROTECTIVE GEAR AS NECESSARY. DIKE TO PREVENT SPREAD. PICK UP WITH AN ABSORBENT MATERIAL AND PUT IN A SUITABLE CONTAINER FOR PROPER DISPOSAL. CLEAN ANY RESIDUES FROM LARGE SPILLS WITH A SUITABLE SOAP OR DETERGENT.

SECTION 7: HANDLING AND STORAGE



HANDLING:

DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, STATIC ELECTRICITY, WELDING ARCS, ETC. DO NOT SMOKE WHILE USING. DO NOT GET IN EYES. AVOID CONTACT WITH SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. AVOID DIRECTLY INHALING MISTS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. SPRAY CAN IN UPRIGHT POSITION ONLY. DIRECT SPRAY AWAY FROM FACE. DO NOT PUNCTURE OR INCINERATE CONTAINER.

STORAGE:

STORE IN A COOL (UNDER 120 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME AND DIRECT SUNLIGHT. KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**EYE PROTECTION:**

NOT USUALLY NEEDED. WEAR APPROVED SAFETY GLASSES OR GOGGLES IF DIRECT CONTACT IS POSSIBLE.

SKIN PROTECTION:

NOT USUALLY NEEDED. WEAR GLOVES IF DIRECT CONTACT IS POSSIBLE.

RESPIRATORY PROTECTIONS:

NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS:

VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE AND ODOR:**

CLEAR COLORLESS LIQUID WITH A FRESH SCENT IN AN AEROSOL CAN.

pH: NOT APPLICABLE

SPECIFIC GRAVITY (70 DEG. F): 0.792

BOILING POINT: 133 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 40 +/- 5

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: COMPLETE

VOLATILE ORGANIC COMPOUNDS (VOCS):

129.5 GRAMS PER LITER OR 30% BY WEIGHT VOCS

SECTION 10: STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION:

THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS AND MINERAL ACIDS, PERMANGANATES, CHROMATES AND CHLORINE.

SECTION 11: TOXICOLOGICAL INFORMATION

NO DATA

SECTION 12: ECOLOGICAL INFORMATION

NO DATA

SECTION 13: DISPOSAL CONSIDERATION**DISPOSAL METHOD:**

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA WASTE INFORMATION:

IF THIS PRODUCT BECOMES A WASTE, IT WOULD A HAZARDOUS WASTE (D001) AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR TO DISPOSAL.

SECTION 14: TRANSPORT INFORMATION**DOT INFORMATION - 49 CFR 172.101:**

PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY

HAZARD CLASS: ORM-D

IDENTIFICATION NUMBER: NONE

PACKING GROUP: NONE

WATER TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS

HAZARD CLASS: 2

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

AIR TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS, FLAMMABLE

HAZARD CLASS: 2.1

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

MARINE POLLUTANTS: NONE

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A):

ACETONE (CAS# 67-64-1) 5000 LBS.

SARA 313 COMPONENTS - 40 CFR 372.65: NONE

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT CONTAINS TRACE CHEMICALS (BENZENE) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REPRODUCTIVE HARM.

SECTION 16: ADDITIONAL INFORMATION

DATE PREPARED: 08/30/07

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY. FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

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MSDS

Common Name: TOUGH GUY FRESH LINEN AIR FRESHENER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 8/30/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2DCA2**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

HMIS (R*) :

HEALTH	1
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	NONE

IDENTITY: TOUGH GUY FRESH LINEN AIR FRESHENER

PART NUMBER: 2DCA2

NOTE:

BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

SECTION 1: COMPANY IDENTIFICATION



MANUFACTURED FOR: W.W. GRAINGER, INC.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):

100 GRAINGER PARKWAY
LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

SECTION 2: INGREDIENTS/IDENTITY INFORMATION



COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
ACETONE	67-64-1	1000 PPM	500 PPM	STEL: 750 PPM	40 - 70%
ISOBUTANE	75-28-5	800 PPM	800 PPM		10 - 30%
PROPANE	74-98-6	1000 PPM	2500 PPM		5 - 10%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

SECTION 3: HAZARDS IDENTIFICATION



ROUTE(S) OF ENTRY:

EYES?: YES

INHALATION?: YES

SKIN?: YES

INGESTION?: YES

ACUTE HEALTH HAZARDS:

WARNING. FLAMMABLE CONTENTS. CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED, BUT THIS IS UNLIKELY AS THE PRODUCT IS A MIST WHEN SPRAYED. INTENTIONAL OVEREXPOSURE TO MIST OR VAPORS MAY RESULT IN ANESTHETIC OR CENTRAL NERVOUS SYSTEM EFFECTS.

CHRONIC HEALTH HAZARDS: NONE KNOWN

CARCINOGENICITY:

CHEMICAL: NONE

OSHA: NO

NTP: NO

IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

IRRITATION OF NOSE, THROAT, SKIN OR EYES. DRYNESS OF SKIN. DROWSINESS, DIZZINESS, FATIGUE OR LOSS OF COORDINATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING SKIN, LIVER OR KIDNEY DISORDERS MAY BE ADVERSELY AFFECTED. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS.



SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYES:

FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: UNLIKELY AS THIS PRODUCT IS A MIST WHEN USED.

INHALATION:

GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

SKIN:

WASH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION ARISES AND PERSISTS, CALL A PHYSICIAN.

SECTION 5: FIRE FIGHTING MEASURES



USA FLAME PROJECTION TEST (ASTM D-3065): 10", NO FLASHBACK

FLAMMABLE LIMITS: NO DATA

LEL: NO DATA

UEL: NO DATA

EXTINGUISHING MEDIA:

WATER MAY BE INEFFECTIVE. USE CARBON DIOXIDE, DRY CHEMICAL, FOAM OR FOG. CONCENTRATE IS HIGHLY VOLATILE AND FLAMMABLE. VAPORS MAY TRAVEL ALONG GROUND TO IGNITION SOURCES.

SPECIAL FIRE FIGHTING PROCEDURES:

USE WATER SPRAY TO KEEP CONTAINERS COOL AND VAPORS DOWN. DO NOT ALLOW RUNOFF TO ENTER SEWERS OR PUBLIC WATERCOURSES. WEAR SELF-CONTAINED BREATHING APPARATUS IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION:

CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F. CONTENTS ARE HIGHLY VOLATILE AND FLAMMABLE.

SECTION 6: ACCIDENTAL RELEASE MEASURES



SMALL SPILL: CAUTION, SLIP HAZARD. WIPE UP SMALL SPILLS PROMPTLY.

LARGE SPILL:

ISOLATE TRAFFIC AND VENTILATE AREA. ELIMINATE ALL IGNITION SOURCES. WEAR PROTECTIVE GEAR AS NECESSARY. DIKE TO PREVENT SPREAD. PICK UP WITH AN ABSORBENT MATERIAL AND PUT IN A SUITABLE CONTAINER FOR PROPER DISPOSAL. CLEAN ANY RESIDUES FROM LARGE SPILLS WITH A SUITABLE SOAP OR DETERGENT.

SECTION 7: HANDLING AND STORAGE



HANDLING:

DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, STATIC ELECTRICITY, WELDING ARCS, ETC. DO NOT SMOKE WHILE USING. DO NOT GET IN EYES. AVOID CONTACT WITH SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. AVOID DIRECTLY INHALING MISTS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. SPRAY CAN IN UPRIGHT POSITION ONLY. DIRECT SPRAY AWAY FROM FACE. DO NOT PUNCTURE OR INCINERATE CONTAINER.

STORAGE:

STORE IN A COOL (UNDER 120 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME AND DIRECT SUNLIGHT. KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**EYE PROTECTION:**

NOT USUALLY NEEDED. WEAR APPROVED SAFETY GLASSES OR GOGGLES IF DIRECT CONTACT IS POSSIBLE.

SKIN PROTECTION:

NOT USUALLY NEEDED. WEAR GLOVES IF DIRECT CONTACT IS POSSIBLE.

RESPIRATORY PROTECTIONS:

NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS:

VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE AND ODOR:**

CLEAR COLORLESS LIQUID WITH A FRESH SCENT IN AN AEROSOL CAN.

pH: NOT APPLICABLE

SPECIFIC GRAVITY (70 DEG. F): 0.792

BOILING POINT: 133 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 40 +/- 5

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: COMPLETE

VOLATILE ORGANIC COMPOUNDS (VOCS):

129.5 GRAMS PER LITER OR 30% BY WEIGHT VOCS

SECTION 10: STABILITY AND REACTIVITY**HAZARDOUS POLYMERIZATION:**

THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS AND MINERAL ACIDS, PERMANGANATES, CHROMATES AND CHLORINE.

SECTION 11: TOXICOLOGICAL INFORMATION

NO DATA

SECTION 12: ECOLOGICAL INFORMATION

NO DATA

SECTION 13: DISPOSAL CONSIDERATION

DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA WASTE INFORMATION:

IF THIS PRODUCT BECOMES A WASTE, IT WOULD A HAZARDOUS WASTE (D001) AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR TO DISPOSAL.

SECTION 14: TRANSPORT INFORMATION

DOT INFORMATION - 49 CFR 172.101:

PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY

HAZARD CLASS: ORM-D

IDENTIFICATION NUMBER: NONE

PACKING GROUP: NONE

WATER TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS

HAZARD CLASS: 2

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

AIR TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS, FLAMMABLE

HAZARD CLASS: 2.1

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

MARINE POLLUTANTS: NONE

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A):

ACETONE (CAS# 67-64-1) 5000 LBS.

SARA 313 COMPONENTS - 40 CFR 372.65: NONE

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT CONTAINS TRACE CHEMICALS (BENZENE) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REPRODUCTIVE HARM.

SECTION 16: ADDITIONAL INFORMATION

DATE PREPARED: 08/30/07

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY. FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

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MSDS

Common Name: TOUGH GUY FRESH LINEN AIR FRESHENER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 8/30/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2DCA2**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

HMIS (R*) :

HEALTH	1
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	NONE

IDENTITY: TOUGH GUY FRESH LINEN AIR FRESHENER**PART NUMBER:** 2DCA2

NOTE:

BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

SECTION 1: COMPANY IDENTIFICATION

**MANUFACTURED FOR:** W.W. GRAINGER, INC.**ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):**

100 GRAINGER PARKWAY
LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

SECTION 2: INGREDIENTS/IDENTITY INFORMATION



COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
ACETONE	67-64-1	1000 PPM	500 PPM	STEL: 750 PPM	40 - 70%
ISOBUTANE	75-28-5	800 PPM	800 PPM		10 - 30%
PROPANE	74-98-6	1000 PPM	2500 PPM		5 - 10%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

SECTION 3: HAZARDS IDENTIFICATION



ROUTE(S) OF ENTRY:

EYES?: YES

INHALATION?: YES

SKIN?: YES

INGESTION?: YES

ACUTE HEALTH HAZARDS:

WARNING. FLAMMABLE CONTENTS. CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED, BUT THIS IS UNLIKELY AS THE PRODUCT IS A MIST WHEN SPRAYED. INTENTIONAL OVEREXPOSURE TO MIST OR VAPORS MAY RESULT IN ANESTHETIC OR CENTRAL NERVOUS SYSTEM EFFECTS.

CHRONIC HEALTH HAZARDS: NONE KNOWN

CARCINOGENICITY:

CHEMICAL: NONE

OSHA: NO

NTP: NO

IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

IRRITATION OF NOSE, THROAT, SKIN OR EYES. DRYNESS OF SKIN. DROWSINESS, DIZZINESS, FATIGUE OR LOSS OF COORDINATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING SKIN, LIVER OR KIDNEY DISORDERS MAY BE ADVERSELY AFFECTED. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS.



SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYES:

FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: UNLIKELY AS THIS PRODUCT IS A MIST WHEN USED.

INHALATION:

GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

SKIN:

WASH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION ARISES AND PERSISTS, CALL A PHYSICIAN.

SECTION 5: FIRE FIGHTING MEASURES



USA FLAME PROJECTION TEST (ASTM D-3065): 10", NO FLASHBACK

FLAMMABLE LIMITS: NO DATA

LEL: NO DATA

UEL: NO DATA

EXTINGUISHING MEDIA:

WATER MAY BE INEFFECTIVE. USE CARBON DIOXIDE, DRY CHEMICAL, FOAM OR FOG. CONCENTRATE IS HIGHLY VOLATILE AND FLAMMABLE. VAPORS MAY TRAVEL ALONG GROUND TO IGNITION SOURCES.

SPECIAL FIRE FIGHTING PROCEDURES:

USE WATER SPRAY TO KEEP CONTAINERS COOL AND VAPORS DOWN. DO NOT ALLOW RUNOFF TO ENTER SEWERS OR PUBLIC WATERCOURSES. WEAR SELF-CONTAINED BREATHING APPARATUS IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION:

CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F. CONTENTS ARE HIGHLY VOLATILE AND FLAMMABLE.

SECTION 6: ACCIDENTAL RELEASE MEASURES



SMALL SPILL: CAUTION, SLIP HAZARD. WIPE UP SMALL SPILLS PROMPTLY.

LARGE SPILL:

ISOLATE TRAFFIC AND VENTILATE AREA. ELIMINATE ALL IGNITION SOURCES. WEAR PROTECTIVE GEAR AS NECESSARY. DIKE TO PREVENT SPREAD. PICK UP WITH AN ABSORBENT MATERIAL AND PUT IN A SUITABLE CONTAINER FOR PROPER DISPOSAL. CLEAN ANY RESIDUES FROM LARGE SPILLS WITH A SUITABLE SOAP OR DETERGENT.

SECTION 7: HANDLING AND STORAGE



HANDLING:

DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, STATIC ELECTRICITY, WELDING ARCS, ETC. DO NOT SMOKE WHILE USING. DO NOT GET IN EYES. AVOID CONTACT WITH SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. AVOID DIRECTLY INHALING MISTS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. SPRAY CAN IN UPRIGHT POSITION ONLY. DIRECT SPRAY AWAY FROM FACE. DO NOT PUNCTURE OR INCINERATE CONTAINER.

STORAGE:

STORE IN A COOL (UNDER 120 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME AND DIRECT SUNLIGHT. KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**EYE PROTECTION:**

NOT USUALLY NEEDED. WEAR APPROVED SAFETY GLASSES OR GOGGLES IF DIRECT CONTACT IS POSSIBLE.

SKIN PROTECTION:

NOT USUALLY NEEDED. WEAR GLOVES IF DIRECT CONTACT IS POSSIBLE.

RESPIRATORY PROTECTIONS:

NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS:

VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE AND ODOR:**

CLEAR COLORLESS LIQUID WITH A FRESH SCENT IN AN AEROSOL CAN.

pH: NOT APPLICABLE

SPECIFIC GRAVITY (70 DEG. F): 0.792

BOILING POINT: 133 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 40 +/- 5

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: COMPLETE

VOLATILE ORGANIC COMPOUNDS (VOCS):

129.5 GRAMS PER LITER OR 30% BY WEIGHT VOCS

SECTION 10: STABILITY AND REACTIVITY**HAZARDOUS POLYMERIZATION:**

THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS AND MINERAL ACIDS, PERMANGANATES, CHROMATES AND CHLORINE.

SECTION 11: TOXICOLOGICAL INFORMATION

NO DATA

SECTION 12: ECOLOGICAL INFORMATION

NO DATA

SECTION 13: DISPOSAL CONSIDERATION

DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA WASTE INFORMATION:

IF THIS PRODUCT BECOMES A WASTE, IT WOULD A HAZARDOUS WASTE (D001) AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR TO DISPOSAL.

SECTION 14: TRANSPORT INFORMATION

DOT INFORMATION - 49 CFR 172.101:

PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY

HAZARD CLASS: ORM-D

IDENTIFICATION NUMBER: NONE

PACKING GROUP: NONE

WATER TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS

HAZARD CLASS: 2

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

AIR TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS, FLAMMABLE

HAZARD CLASS: 2.1

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

MARINE POLLUTANTS: NONE

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A):

ACETONE (CAS# 67-64-1) 5000 LBS.

SARA 313 COMPONENTS - 40 CFR 372.65: NONE

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT CONTAINS TRACE CHEMICALS (BENZENE) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REPRODUCTIVE HARM.

SECTION 16: ADDITIONAL INFORMATION

DATE PREPARED: 08/30/07

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY. FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

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MSDS

Common Name: TOUGH GUY ORANGE DELIGHT AIR FRESHENER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 8/30/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2DCA4**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

HMIS (R*) :

HEALTH	1
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	NONE

IDENTITY: TOUGH GUY ORANGE DELIGHT AIR FRESHENER

PART NUMBER: 2DCA4

NOTE:

BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

SECTION 1: COMPANY IDENTIFICATION



MANUFACTURED FOR: W.W. GRAINGER, INC.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):

100 GRAINGER PARKWAY
LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

SECTION 2: INGREDIENTS/IDENTITY INFORMATION



COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
ACETONE	67-64-1	1000 PPM	500 PPM	STEL: 750 PPM	40 - 70%
ISOBUTANE	75-28-5	800 PPM	800 PPM		10 - 30%
PROPANE	74-98-6	1000 PPM	2500 PPM		5 - 10%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

SECTION 3: HAZARDS IDENTIFICATION



ROUTE(S) OF ENTRY:

EYES?: YES

INHALATION?: YES

SKIN?: YES

INGESTION?: YES

ACUTE HEALTH HAZARDS:

WARNING. FLAMMABLE CONTENTS. CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED, BUT THIS IS UNLIKELY AS THE PRODUCT IS A MIST WHEN SPRAYED. INTENTIONAL OVEREXPOSURE TO MIST OR VAPORS MAY RESULT IN ANESTHETIC OR CENTRAL NERVOUS SYSTEM EFFECTS.

CHRONIC HEALTH HAZARDS: NONE KNOWN

CARCINOGENICITY:

CHEMICAL: NONE

OSHA: NO

NTP: NO

IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

IRRITATION OF NOSE, THROAT, SKIN OR EYES. DRYNESS OF SKIN. DROWSINESS, DIZZINESS, FATIGUE OR LOSS OF COORDINATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING SKIN, LIVER OR KIDNEY DISORDERS MAY BE ADVERSELY AFFECTED. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES



EYES:

FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: UNLIKELY AS THIS PRODUCT IS A MIST WHEN USED.

INHALATION:

GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

SKIN:

WASH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION ARISES AND PERSISTS, CALL A PHYSICIAN.

SECTION 5: FIRE FIGHTING MEASURES



USA FLAME PROJECTION TEST (ASTM D-3065): 10", NO FLASHBACK

FLAMMABLE LIMITS: NO DATA

LEL: NO DATA

UEL: NO DATA

EXTINGUISHING MEDIA:

WATER MAY BE INEFFECTIVE. USE CARBON DIOXIDE, DRY CHEMICAL, FOAM OR FOG. CONCENTRATE IS HIGHLY VOLATILE AND FLAMMABLE. VAPORS MAY TRAVEL ALONG GROUND TO IGNITION SOURCES.

SPECIAL FIRE FIGHTING PROCEDURES:

USE WATER SPRAY TO KEEP CONTAINERS COOL AND VAPORS DOWN. DO NOT ALLOW RUNOFF TO ENTER SEWERS OR PUBLIC WATERCOURSES. WEAR SELF-CONTAINED BREATHING APPARATUS IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION:

CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F. CONTENTS ARE HIGHLY VOLATILE AND FLAMMABLE.

SECTION 6: ACCIDENTAL RELEASE MEASURES



SMALL SPILL: CAUTION, SLIP HAZARD. WIPE UP SMALL SPILLS PROMPTLY.

LARGE SPILL:

ISOLATE TRAFFIC AND VENTILATE AREA. ELIMINATE ALL IGNITION SOURCES. WEAR PROTECTIVE GEAR AS NECESSARY. DIKE TO PREVENT SPREAD. PICK UP WITH AN ABSORBENT MATERIAL AND PUT IN A SUITABLE CONTAINER FOR PROPER DISPOSAL. CLEAN ANY RESIDUES FROM LARGE SPILLS WITH A SUITABLE SOAP OR DETERGENT.

SECTION 7: HANDLING AND STORAGE



HANDLING:

DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, STATIC ELECTRICITY, WELDING ARCS, ETC. DO NOT SMOKE WHILE USING. DO NOT GET IN EYES. AVOID CONTACT WITH SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. AVOID DIRECTLY INHALING MISTS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. SPRAY CAN IN UPRIGHT POSITION ONLY. DIRECT SPRAY AWAY FROM FACE. DO NOT PUNCTURE OR INCINERATE CONTAINER.

STORAGE:

STORE IN A COOL (UNDER 120 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME AND DIRECT SUNLIGHT. KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**EYE PROTECTION:**

NOT USUALLY NEEDED. WEAR APPROVED SAFETY GLASSES OR GOGGLES IF DIRECT CONTACT IS POSSIBLE.

SKIN PROTECTION:

NOT USUALLY NEEDED. WEAR GLOVES IF DIRECT CONTACT IS POSSIBLE.

RESPIRATORY PROTECTIONS:

NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS:

VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE AND ODOR:**

CLEAR COLORLESS LIQUID WITH A FRESH SCENT IN AN AEROSOL CAN.

pH: NOT APPLICABLE

SPECIFIC GRAVITY (70 DEG. F): 0.792

BOILING POINT: 133 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 40 +/- 5

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: COMPLETE

VOLATILE ORGANIC COMPOUNDS (VOCS):

129.5 GRAMS PER LITER OR 30% BY WEIGHT VOCS

SECTION 10: STABILITY AND REACTIVITY**HAZARDOUS POLYMERIZATION:**

THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS AND MINERAL ACIDS, PERMANGANATES, CHROMATES AND CHLORINE.

SECTION 11: TOXICOLOGICAL INFORMATION



NO DATA

SECTION 12: ECOLOGICAL INFORMATION



NO DATA

SECTION 13: DISPOSAL CONSIDERATION



DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA WASTE INFORMATION:

IF THIS PRODUCT BECOMES A WASTE, IT WOULD A HAZARDOUS WASTE (D001) AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR TO DISPOSAL.

SECTION 14: TRANSPORT INFORMATION



DOT INFORMATION - 49 CFR 172.101:

PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY

HAZARD CLASS: ORM-D

IDENTIFICATION NUMBER: NONE

PACKING GROUP: NONE

WATER TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS

HAZARD CLASS: 2

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

AIR TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS, FLAMMABLE

HAZARD CLASS: 2.1

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

MARINE POLLUTANTS: NONE

**SECTION 15: REGULATORY INFORMATION**

US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A):

ACETONE (CAS# 67-64-1) 5000 LBS.

SARA 313 COMPONENTS - 40 CFR 372.65: NONE

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT CONTAINS TRACE CHEMICALS (BENZENE) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REPRODUCTIVE HARM.

SECTION 16: ADDITIONAL INFORMATION

DATE PREPARED: 08/30/07

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY. FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

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MSDS

Common Name: TOUGH GUY CLEANER FOR REMOVING WAX & SOIL**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 8/31/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2DCA6**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

HMIS (R*) :

HEALTH 3

FLAMMABILITY 1

REACTIVITY 0

PERSONAL PROTECTION B

IDENTITY: TOUGH GUY CLEANER FOR REMOVING WAX & SOIL

PART NUMBER: 2DCA6

NOTE:

BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

SECTION 1: COMPANY IDENTIFICATION



MANUFACTURED FOR: W.W. GRAINGER, INC.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):

100 GRAINGER PARKWAY
LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

SECTION 2: INGREDIENTS/IDENTITY INFORMATION



COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
WATER	7732-18-5	NONE	NONE		60 - 100%
ISOBUTANE	75-28-5	800 PPM	800 PPM		7 - 13%
2-BUTOXYETHANOL (SKIN DESIGNATION)	111-76-2	50 PPM	20 PPM		3 - 7%
POTASSIUM HYDROXIDE	1310-58-3	NONE	NONE	2 MG/M3 (CEILING)	1 - 5%
TRISODIUM PHOSPHATE	10101-89-0	NONE	NONE		1 - 5%
TETRAPOTASSIUM PYROPHOSPHATE	7320-34-5	NONE	NONE		1 - 5%
PROPANE	74-98-6	1000 PPM	2500 PPM		1 - 5%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

SECTION 3: HAZARDS IDENTIFICATION



ROUTE(S) OF ENTRY:

EYES?: YES

INHALATION?: YES

SKIN?: YES

INGESTION?: YES

ACUTE HEALTH HAZARDS:

DANGER:

CORROSIVE. CONTAINS POTASSIUM HYDROXIDE. CAUSES EYE BURNS. HARMFUL OR FATAL IF SWALLOWED. CAUSES SKIN IRRITATION. HARMFUL IF INHALED. MAY BE ABSORBED THROUGH INTACT SKIN. NERVOUS SYSTEM DEPRESSANT IF INGESTED OR INHALED IN LARGE QUANTITIES. PRACTICE PROPER CHEMICAL HYGIENE TO AVOID THESE HAZARDS.

CHRONIC HEALTH HAZARDS: NONE KNOWN

CARCINOGENICITY:

CHEMICAL: NONE

OSHA: NO

NTP: NO

IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

REDNESS, TEARING, BURNING IN EYES. SLICK FEELING ON SKIN. IRRITATION OF MOUTH, THROAT, OR STOMACH. DROWSINESS, DIZZINESS, FATIGUE AND LOSS OF COORDINATION WITH EXTREME OVEREXPOSURES.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING SKIN DISORDERS OR LUNG IMPAIRMENTS MAY BE AGGRAVATED BY PROLONGED OR REPEATED OCCUPATIONAL OVEREXPOSURE.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES



EYES:

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. SEE A PHYSICIAN IMMEDIATELY.

INGESTION:

DO NOT INDUCE VOMITING UNLESS DIRECTED BY A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. DRINK 2 GLASSES OF WATER. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

INHALATION:

GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

SKIN:

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING. IF IRRITATION ARISES AND PERSISTS, CALL A PHYSICIAN. LAUNDRY CONTAMINATED CLOTHING AND SHOES BEFORE REUSE.

SECTION 5: FIRE FIGHTING MEASURES



USA FLAME PROJECTION TEST:

0", EXTINGUISHES FLAME: NON-FLAMMABLE

FLAMMABLE LIMITS: NO DATA

LEL: NO DATA

UEL: NO DATA

EXTINGUISHING MEDIA:

NOT USUALLY NECESSARY AS THIS PRODUCT DOES NOT READILY SUPPORT COMBUSTION. USE AN EXTINGUISHING AGENT APPROPRIATE FOR FIRE'S FUEL SOURCE.

SPECIAL FIRE FIGHTING PROCEDURES:

KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT RUNOFF FROM ENTERING SEWERS AND PUBLIC WATERWAYS. WEAR SCBA IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION:

CARBON DIOXIDE, CARBON MONOXIDE, AMMONIA, NITROUS OXIDES, HYDROGEN, SMOKE AND SOOT.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F. CORROSIVE CONTENTS.

SECTION 6: ACCIDENTAL RELEASE MEASURES



SMALL SPILL:

WIPE UP SMALL RELEASES WITH A DRY ABSORBENT CLOTH OR OTHER ABSORBENT MATERIAL.

LARGE SPILL:

ABSORB LIQUID WITH VERMICULITE, ABSORBENT CLOTH, OR OTHER ABSORBENT MATERIAL. PREVENT MATERIAL FROM ENTERING SEWERS OR DRAINS. VENTILATE AREA AND BLOCK TRAFFIC. TRANSFER CONTAMINATED MATERIAL INTO SUITABLE CONTAINER FOR PROPER DISPOSAL.

SECTION 7: HANDLING AND STORAGE**HANDLING:**

DO NOT GET IN EYES. DO NOT SWALLOW. WASH THOROUGHLY AFTER HANDLING. AVOID CONTACT WITH SKIN AND CLOTHING. AVOID INHALING MIST OR VAPORS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. USE WITH ADEQUATE VENTILATION. DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, ETC. DO NOT SMOKE WHILE USING. DIRECT SPRAY AWAY FROM FACE.

STORAGE:

FOLLOW LABEL DIRECTIONS CAREFULLY. KEEP OUT OF REACH OF CHILDREN. STORE IN A COOL (UNDER 120 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME AND DIRECT SUNLIGHT. CONTENTS UNDER PRESSURE. DO NOT CONTAMINATE WATER, FOOD OR FEED BY USE OR STORAGE. REPLACE CAP WHEN NOT IN USE.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION: YES, APPROVED SAFETY GLASSES OR GOGGLES (ANSI Z87).

SKIN PROTECTION: YES, IMPERVIOUS.

RESPIRATORY PROTECTIONS:

NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS:

VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE AND ODOR:**

SLIGHTLY VISCOUS TAN OPAQUE LIQUID WITH A SPEARMINT SCENT IN AN AEROSOL CAN.

pH: 13 +/- 0.5

SPECIFIC GRAVITY (70 DEG. F): 1.058

BOILING POINT: 212 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 75 +/- 10

VAPOR DENSITY (AIR = 1): NO DATA

SOLUBILITY IN WATER: COMPLETE

VOLATILE ORGANIC COMPOUNDS (VOCS):
200 GRAMS PER LITER OR 21.61% BY WEIGHT VOCS

SECTION 10: STABILITY AND REACTIVITY



HAZARDOUS POLYMERIZATION:
THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
CARBON DIOXIDE, CARBON MONOXIDE, AMMONIA, NITROUS OXIDES, HYDROGEN, SMOKE
AND SOOT.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):
STRONG MINERAL ACIDS AND OXIDIZERS, ALUMINUM, STRONG ALKALIES,
CHLORINATED HYDROCARBONS, CHLORINE DIOXIDE, MALEIC ANHYDRIDE, NITROETHANE,
NITROPARAFFINS, 2-NITROPHENOL, NITROPROPANE, PHOSPHORUS, POTASSIUM
PERSULFATE, ACROLEIN, ACRYLONITRILE, AND TETRAHYDROFURAN.

SECTION 11: TOXICOLOGICAL INFORMATION



NO DATA

SECTION 12: ECOLOGICAL INFORMATION



NO DATA

SECTION 13: DISPOSAL CONSIDERATION



DISPOSAL METHOD:
DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL
REGULATIONS.

RCRA WASTE INFORMATION:
IF THIS PRODUCT BECOMES A WASTE, IT WOULD BE A HAZARDOUS WASTE (D002)
AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY
CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR
TO DISPOSAL.

SECTION 14: TRANSPORT INFORMATION



DOT INFORMATION - 49 CFR 172.101:
PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY
HAZARD CLASS: ORM-D
IDENTIFICATION NUMBER: NONE
PACKING GROUP: NONE

WATER TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS

HAZARD CLASS: 2

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

AIR TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: FORBIDDEN IN ALL AIRCRAFT.

HAZARD CLASS: N/A

IDENTIFICATION NUMBER: N/A

PACKING GROUP: N/A

MARINE POLLUTANTS: NONE

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A):

TRISODIUM PHOSPHATE 5000 LBS

SARA 313 COMPONENTS - 40 CFR 372.65:

2-BUTOXYETHANOL (CAS: 111-76-2) 6.6%

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65:

WARNING:

THIS PRODUCT CONTAINS A TRACE CHEMICAL (1,4 DIOXANE) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

SECTION 16: ADDITIONAL INFORMATION

DATE PREPARED: 08/31/07

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY. FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE

FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

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MSDS

Common Name: TOUGH GUY DUST MOP TREATMENT, 2DCC4**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 8/30/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2DCC4**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

HMIS (R*) :

HEALTH 1

FLAMMABILITY 0

REACTIVITY 0

PERSONAL PROTECTION A

IDENTITY: TOUGH GUY DUST MOP TREATMENT

PART NUMBER: 2DCC4

NOTE:

BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

SECTION 1: COMPANY IDENTIFICATION



MANUFACTURED FOR: W.W. GRAINGER, INC.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):

100 GRAINGER PARKWAY
LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

SECTION 2: INGREDIENTS/IDENTITY INFORMATION



COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
WATER	7732-18-5	NONE	NONE		60 - 100%
ISOBUTANE	75-28-5	800 PPM	800 PPM		5 - 10%
PROPANE	74-98-6	1000 PPM	ASPHYXIAN		1 - 5%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

SECTION 3: HAZARDS IDENTIFICATION



ROUTE(S) OF ENTRY:

EYES?: YES

INHALATION?: NO

SKIN?: NO

INGESTION?: YES

ACUTE HEALTH HAZARDS:

CAUTION. MAY CAUSE EYE AND SKIN IRRITATION. CONTENTS UNDER PRESSURE.
FOLLOW GOOD CHEMICAL HYGIENE PRACTICES WHEN USING THIS AND OTHER CLEANING PRODUCTS.

CHRONIC HEALTH HAZARDS:

REPEATED OR PROLONGED OCCUPATIONAL OVEREXPOSURES MAY CAUSE DERMATITIS.

CARCINOGENICITY:

CHEMICAL: NONE

OSHA: NO

NTP: NO

IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

REDNESS, TEARING, BURNING IN EYES. REDNESS, DRYING, CRACKING OF SKIN.
IRRITATION OF NOSE AND THROAT.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING SKIN DISORDERS.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES



EYES:

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. SEE A PHYSICIAN IMMEDIATELY.

INGESTION:

RINSE OUT MOUTH WITH WATER. DO NOT INDUCE VOMITING UNLESS DIRECTED BY A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

INHALATION:

GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

SKIN:

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING. IF IRRITATION ARISES AND PERSISTS, CALL A PHYSICIAN. LAUNDER CONTAMINATED CLOTHING AND SHOES BEFORE REUSE.

SECTION 5: FIRE FIGHTING MEASURES

USA FLAME PROJECTION TEST (ASTM D-3065): 0" - NON-FLAMMABLE

FLAMMABLE LIMITS: NO DATA

LEL: NO DATA

UEL: NO DATA

EXTINGUISHING MEDIA:

THIS PRODUCT DOES NOT SUPPORT COMBUSTION. USE EXTINGUISHING AGENT SUITABLE TO FUEL SOURCE.

SPECIAL FIRE FIGHTING PROCEDURES:

KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT RUNOFF FROM ENTERING SEWERS AND PUBLIC WATERWAYS. WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA) IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION:

CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT, AMMONIACAL AND NITROUS OXIDE FUMES, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY PRODUCTS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F.

SECTION 6: ACCIDENTAL RELEASE MEASURES**SMALL SPILL:**

WIPE UP SMALL RELEASES WITH A DRY ABSORBENT CLOTH OR OTHER ABSORBENT MATERIAL.

LARGE SPILL:

ABSORB LIQUID WITH VERMICULITE, ABSORBENT CLOTH, OR OTHER ABSORBENT MATERIAL. PREVENT MATERIAL FROM ENTERING SEWERS OR DRAINS. VENTILATE AREA AND BLOCK TRAFFIC. TRANSFER CONTAMINATED MATERIAL INTO SUITABLE CONTAINER FOR PROPER DISPOSAL.

SECTION 7: HANDLING AND STORAGE

HANDLING:

AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. AVOID INHALING MIST AND VAPORS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. USE WITH ADEQUATE VENTILATION. DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, ETC. DIRECT SPRAY AWAY FROM FACE.

STORAGE:

FOLLOW LABEL DIRECTIONS CAREFULLY. KEEP OUT OF REACH OF CHILDREN. STORE IN A COOL (UNDER 120 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME, AND DIRECT SUNLIGHT. REPLACE CAP WHEN NOT IN USE.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**EYE PROTECTION:**

YES, IF DIRECT CONTACT IS POSSIBLE USE APPROVED SAFETY GLASSES OR GOGGLES. (ANSI Z87)

SKIN PROTECTION: NOT USUALLY NEEDED.

RESPIRATORY PROTECTIONS:

NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS:

VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE AND ODOR:**

WHITE OPAQUE LIQUID WITH A LEMON SCENT IN AN AEROSOL CAN.

pH: 10 +/- 0.5

SPECIFIC GRAVITY (70 DEG. F): 0.999

BOILING POINT: 212 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 65 +/- 10

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: COMPLETE

VOLATILE ORGANIC COMPOUNDS (VOCs): 92 GRAMS PER LITER OR 10% BY WEIGHT VOCs

SECTION 10: STABILITY AND REACTIVITY**HAZARDOUS POLYMERIZATION:**

THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT, AMMONIACAL AND NITROUS OXIDE

FUMES, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY PRODUCTS.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):
STRONG OXIDIZERS, ACIDS, BASES, AND REDUCING AGENTS.

SECTION 11: TOXICOLOGICAL INFORMATION



NO DATA

SECTION 12: ECOLOGICAL INFORMATION



NO DATA

SECTION 13: DISPOSAL CONSIDERATION



DISPOSAL METHOD:
DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA WASTE INFORMATION:
IF THIS PRODUCT BECOMES A WASTE, IT WOULD NOT BE A HAZARDOUS WASTE AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR TO DISPOSAL.

SECTION 14: TRANSPORT INFORMATION



DOT INFORMATION - 49 CFR 172.101:
PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY
HAZARD CLASS: ORM-D
IDENTIFICATION NUMBER: NONE
PACKING GROUP: NONE

WATER TRANSPORTATION:
PROPER SHIPPING DESCRIPTION: AEROSOLS
HAZARD CLASS: 2
IDENTIFICATION NUMBER: UN 1950
PACKING GROUP: NONE

AIR TRANSPORTATION:
PROPER SHIPPING DESCRIPTION: AEROSOLS, NON-FLAMMABLE
HAZARD CLASS: 2.2
IDENTIFICATION NUMBER: UN 1950
PACKING GROUP: NONE

MARINE POLLUTANTS: NONE

SECTION 15: REGULATORY INFORMATION



US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A): NONE LISTED

SARA 313 COMPONENTS - 40 CFR 372.65: NONE

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65:

WARNING:

THIS PRODUCT CONTAINS TRACE CHEMICALS (ETHYLENE OXIDE AND PROPYLENE OXIDE) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, AND/OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

SECTION 16: ADDITIONAL INFORMATION

DATE PREPARED: 08/30/07

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY. FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

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MSDS

Common Name: TOUGH GUY DUST MOP TREATMENT**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 8/30/2007**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2DCC6**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

HMIS (R*) :

HEALTH 1

FLAMMABILITY 2

REACTIVITY 0

PERSONAL PROTECTION B

IDENTITY: TOUGH GUY DUST MOP TREATMENT

PART NUMBER: 2DCC6

NOTE:

BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

SECTION 1: COMPANY IDENTIFICATION



MANUFACTURED FOR: W.W. GRAINGER, INC.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):

100 GRAINGER PARKWAY
LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

SECTION 2: INGREDIENTS/IDENTITY INFORMATION



COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
ISOPARAFFINIC HYDROCARBON	64742-47-8	NOT ESTAB.	NOT ESTAB.	152 PPM MANU.	60 - 100%
WHITE MINERAL OIL	8042-47-5	5 MG/M3 (MIST)	5 MG/M3 (MIST)		10 - 30%
PROPANE	74-98-6	1000 PPM	ASPHY- XIAN		7 - 13%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

SECTION 3: HAZARDS IDENTIFICATION



ROUTE(S) OF ENTRY:

EYES?: YES

INHALATION?: NO

SKIN?: YES

INGESTION?: YES

ACUTE HEALTH HAZARDS:

DANGER:

CONTAINS PETROLEUM DISTILLATES. ASPIRATION HAZARD. HARMFUL OR FATAL IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. MAY CAUSE EYE AND SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. CAN CAUSE CENTRAL NERVOUS SYSTEM EFFECTS IF IMPROPERLY USED. USE GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS.

CHRONIC HEALTH HAZARDS:

REPEATED OR PROLONGED SKIN CONTACT MAY CAUSE DRYING AND DEFATTING OF SKIN (DERMATITIS).

CARCINOGENICITY:

CHEMICAL: NONE

OSHA: NO

NTP: NO

IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

BURNING, TEARING, REDNESS IN EYES. DRYNESS, CRACKING, BURNING ON SKIN. IRRITATION OF NOSE, THROAT AND DIGESTIVE TRACT. HEADACHES, NAUSEA,

VOMITING, DROWSINESS, DIZZINESS, LOSS OF COORDINATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING SKIN DISORDERS MAY BE AGGRAVATED IF SUBJECTED TO PROLONGED OR REPEATED OCCUPATIONAL OVEREXPOSURES.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES



EYES:

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION:

CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. DO NOT INDUCE VOMITING UNLESS DIRECTED BY A PHYSICIAN OR POISON CONTROL CENTER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. ASPIRATION HAZARD.

INHALATION:

REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION.

SKIN:

IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION IF IRRITATION ARISES OR PERSISTS. WASH CLOTHING BEFORE REUSE.

SECTION 5: FIRE FIGHTING MEASURES



USA FLAME PROJECTION TEST: >18" - FLAMMABLE, NO FLASHBACK

FLAMMABLE LIMITS: NO DATA

LEL: NO DATA

UEL: NO DATA

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM.

SPECIAL FIRE FIGHTING PROCEDURES:

KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT RUNOFF FROM ENTERING SEWERS AND PUBLIC WATERWAYS. WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA) IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION:

CARBON DIOXIDE, CARBON MONOXIDE, ALDEHYDES, AMMONIA, HYDROGEN SULFIDE, NITROUS OXIDE AND SULFUR OXIDE.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F.

SECTION 6: ACCIDENTAL RELEASE MEASURES



SMALL SPILL:

WIPE UP SMALL RELEASES WITH A DRY ABSORBENT CLOTH OR OTHER ABSORBENT MATERIAL.

LARGE SPILL:

ABSORB LIQUID WITH VERMICULITE, ABSORBENT CLOTH, OR OTHER ABSORBENT

MATERIAL. PREVENT MATERIAL FROM ENTERING SEWERS OR DRAINS. VENTILATE AREA AND BLOCK TRAFFIC. TRANSFER CONTAMINATED MATERIAL INTO SUITABLE CONTAINER FOR PROPER DISPOSAL.

SECTION 7: HANDLING AND STORAGE



HANDLING:

AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID INHALING MIST OR VAPORS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. USE WITH ADEQUATE VENTILATION. DO NOT SWALLOW. DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT SPARKS, OPEN FLAME, STATIC ELECTRICITY, WELDING ARCS, ELECTRIC MOTORS, ETC. DO NOT SMOKE WHILE USING. DIRECT SPRAY AWAY FROM FACE. WASH THOROUGHLY AFTER HANDLING. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE.

STORAGE:

FOLLOW LABEL DIRECTIONS CAREFULLY. KEEP OUT OF REACH OF CHILDREN. STORE IN A COOL (UNDER 120 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME, AND DIRECT SUNLIGHT. REPLACE CAP WHEN NOT IN USE.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION



EYE PROTECTION: YES, APPROVED SAFETY GLASSES OR GOGGLES. (ANSI Z87)

SKIN PROTECTION:

IF PROLONGED DIRECT CONTACT IS POSSIBLE USE IMPERVIOUS GLOVES.

RESPIRATORY PROTECTIONS:

NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS:

VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES



APPEARANCE AND ODOR:

CLEAR COLORLESS LIQUID WITH A WINTERGREEN SCENT IN AN AEROSOL CAN.

pH: N/A

SPECIFIC GRAVITY (70 DEG. F): 0.795

BOILING POINT: 220 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 65 +/- 10

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: EMULSIFIABLE

VOLATILE ORGANIC COMPOUNDS (VOCS):

93 GRAMS PER LITER OR 12.6% BY WEIGHT VOC'S

SECTION 10: STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION:

THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

CARBON DIOXIDE, CARBON MONOXIDE, ALDEHYDES, AMMONIA, HYDROGEN SULFIDE, NITROUS OXIDE AND SULFUR OXIDE.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS, ACIDS, ALKALIS, NITROGEN, AND REACTIVE METALS (I.E. - ALUMINUM, POTASSIUM, SODIUM, ETC.).

SECTION 11: TOXICOLOGICAL INFORMATION

NO DATA

SECTION 12: ECOLOGICAL INFORMATION

NO DATA

SECTION 13: DISPOSAL CONSIDERATION

DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA WASTE INFORMATION:

IF THIS PRODUCT BECOMES A WASTE, IT WOULD NOT BE A HAZARDOUS WASTE AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR TO DISPOSAL.

SECTION 14: TRANSPORT INFORMATION

DOT INFORMATION - 49 CFR 172.101:

PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY

HAZARD CLASS: ORM-D

IDENTIFICATION NUMBER: NONE

PACKING GROUP: NONE

WATER TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS

HAZARD CLASS: 2

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

AIR TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS, FLAMMABLE

HAZARD CLASS: 2.1
IDENTIFICATION NUMBER: UN 1950
PACKING GROUP: NONE

MARINE POLLUTANTS: NONE

SECTION 15: REGULATORY INFORMATION



US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:
ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED
ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A): NONE LISTED

SARA 313 COMPONENTS - 40 CFR 372.65: NONE

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65: NONE

SECTION 16: ADDITIONAL INFORMATION



DATE PREPARED: 8/30/07

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER;
THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF
SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH
DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL
RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS
SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS
ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH
PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR
IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY. FITNESS FOR ANY
PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT.
THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF
THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR
BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE
PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE
FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR
CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER
INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

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MSDS

Common Name: SOAP DEGRADER SD-1**Manufacturer:** ROEBIC LABORATORIES**MSDS Revision Date:** 6/26/2008**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2RYR1**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

CONFORMS WITH OSHA FORM OMB NO.: 1218-0072

SOAP DEGRADER

IDENTITY (AS USED ON LABEL AND LIST): ROEBIC SOAP DEGRADER SD-1

DATE PREPARED: 12/18/01

REVIEWED: 06/26/08

PERSON PREPARING DOCUMENT: DAVID LAWLER

SECTION 1



MANUFACTURER'S NAME: ROEBIC LABORATORIES, INC.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):

25 CONNAIR ROAD

PO BOX 927

ORANGE, CT 06477

EMERGENCY TELEPHONE NUMBER:

CHEMTREC: 1-800-424-9300

TELEPHONE NUMBER FOR INFORMATION: 1-203-795-1283

SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S)) :
THIS PRODUCT IS A SUSPENSION OF NON-PATHOGENIC LABORATORY CONTROLLED BACTERIA CULTURE, AND A FEW FERMENTATION BY-PRODUCTS. PRODUCT CONTAINS 1% NON-IONIC SURFACTANT CAS NO. 26027-38-3. ORGANISMS ARE NON-PATHOGENIC, BUT CAN CAUSE INFECTION WHEN IN CONTACT WITH OPEN WOUNDS. THESE ORGANISMS ARE SUSCEPTIBLE TO COMMONLY USED ANTIBIOTICS.

SECTION 3 - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: 212 DEG. F

VAPOR PRESSURE (MMHg.): SAME AS WATER.

VAPOR DENSITY (AIR = 1): SAME AS WATER.

SOLUBILITY IN WATER: 99%

SPECIFIC GRAVITY (H2O = 1): 1

MELTING POINT: N/A

EVAPORATION RATE (BUTYL ACETATE = 1): SAME AS WATER.

APPEARANCE & ODOR: HAZY, SLIGHTLY EARTHY ODOR, SLIGHTLY FOAMING.

SECTION 4 - FIRE & EXPLOSION HAZARD DATA

FLASH POINT METHOD USED: N/A

EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES: N/A

UNUSUAL FIRE & EXPLOSION HAZARDS: N/A

FLAMMABLE LIMITS: N/A

LEL:

UEL:

SECTION 5 - REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):
STRONG ACIDS OR ALKALI MAY INACTIVATE BACTERIA CULTURES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

CONDITIONS TO AVOID: N/A

HAZARDOUS DECOMPOSITION OF BY-PRODUCTS: NONE

CONDITIONS TO AVOID: N/A

SECTION 6 - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY:

INHALATION?: N/A

SKIN?: YES

INGESTION?: YES

HEALTH HAZARDS (ACUTE & CHRONIC):

CHRONIC: N/A

ACUTE:

SKIN CONTACT: POSSIBLE DERMAL SENSITIVITY

EYE CONTACT: POSSIBLE INFECTION

INGESTION: POSSIBLE GI TRACT IRRITATION

CARCINOGENICITY:

NTP?: N/A

IARC MONOGRAPHS?: N/A

OSHA REGULATED?: NO

SIGNS & SYSTEMS OF EXPOSURE:

DERMAL: REDNESS, OTHER SIGNS OF TOPICAL INFECTION

EYES: REDNESS, ITCHING, OTHER SIGNS OF INFECTION

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

EMERGENCY & FIRST AID PROCEDURES:

SKIN CONTACT: WASH WITH SOAP AND WATER.

EYE CONTACT: FLUSH WITH PLENTY OF WATER, CONTACT PHYSICIAN.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING & USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

WASH DOWN DRAIN WITH WATER OR USE CHEMICAL ABSORBENT AND SWEEP UP.

DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

WASH HANDS THOROUGHLY WITH SOAP AND WATER AFTER USE. AVOID CONTACT WITH EYES.

OTHER PRECAUTIONS:

AVOID PROLONGED EXPOSURE TO TEMPERATURES ABOVE 115 F TO MAINTAIN PRODUCT ACTIVITY.

WASTE DISPOSAL METHOD: DRAIN, SEWER LINE, OR OPEN GROUND

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): NORMAL ROOM VENTILATION

VENTILATION:

LOCAL EXHAUST?: N/A

MECHANICAL (GENERAL)?: N/A

SPECIAL?: N/A

OTHER?: N/A

PROTECTIVE GLOVES: NONE REQUIRED.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NONE REQUIRED.

EYE PROTECTION: USE PROTECTIVE GLASSES TO AVOID CONTACT.

WORK / HYGIENIC PRACTICES: NONE EXCEPT AS NOTED ABOVE.

[Close this window](#)

MSDS

Common Name: TOUGH GUY CARPET EXTRACTION CLEANER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 4/26/2008**MSDS Format:** No Format Specified**Grainger Item Number(s):** 2WEC3**Manufacturer Model Number(s):**

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TOUGH GUY (R*)

MATERIAL SAFETY DATA SHEET

	HMIS	NFPA
HEALTH	2	2
FIRE HAZARD	0	0
REACTIVITY	0	0

PERSONAL PROTECTIVE EQUIPMENT:
SAFETY GLASSES
GLOVES

VERSION NUMBER: 1

PREPARATION DATE: 2008-04-26

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: TOUGH GUY CARPET EXTRACTION CLEANER

MSDS #: DRAFT

PRODUCT CODE: 4991788

RECOMMENDED USE:

CARPET CARE. THIS PRODUCT IS INTENDED TO BE DILUTED PRIOR TO USE.

MANUFACTURER, IMPORTER, SUPPLIER:

MANUFACTURED FOR:

W.W. GRAINGER, INC.

100 GRAINGER PARKWAY

LAKE FOREST, IL 60045-5201

PHONE: 1-847-535-1000

TECHNICAL SERVICE: 1-847-535-5400

WWW.GRAINGER.COM

EMERGENCY TELEPHONE NUMBER: 1-800-983-4582

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

WARNING:

CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED.

PRINCIPLE ROUTES OF EXPOSURE: EYE CONTACT. SKIN CONTACT. INHALATION.

EYE CONTACT: SEVERE EYE IRRITATION.

SKIN CONTACT: MODERATELY IRRITATING TO THE SKIN.

INHALATION: MAY BE IRRITATING TO NOSE, THROAT, AND RESPIRATORY TRACT.

INGESTION: MAY BE IRRITATING TO MOUTH, THROAT AND STOMACH.

3. COMPOSITION/INFORMATION ON INGREDIENTS



HAZARDOUS COMPONENTS:

INGREDIENT(S)	CAS #	WEIGHT %	LD50 ORAL - RAT	LD50 DERMAL - RABBIT	LC50 INHALATION - RAT
SODIUM XYLENE SULFONATE	1300-72-7	1 - 5%	=7200 MG/KG	NOT AVAILABLE	NOT AVAILABLE
ALCOHOL ETHOXYLATES	34398-01-1	1 - 5%	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE

4. FIRST AID MEASURES



EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES, KEEPING EYELIDS OPEN. GET MEDICAL ATTENTION.

SKIN CONTACT:

FLUSH IMMEDIATELY WITH PLENTY OF WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INHALATION:

IF BREATHING IS AFFECTED, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION.

INGESTION:

IF SWALLOWED, GIVE A CUPFUL OF WATER OR MILK. THEN IMMEDIATELY CONTACT A PHYSICIAN OR POISON CENTER. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

AGGRAVATED MEDICAL CONDITIONS:

PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTABLE TO IRRITATING EFFECTS.

5. FIRE-FIGHTING MEASURES**SUITABLE EXTINGUISHING MEDIA:**

THE PRODUCT IS NOT FLAMMABLE. EXTINGUISH FIRE USING AGENT SUITABLE FOR SURROUNDING FIRE.

SPECIFIC HAZARDS: NOT APPLICABLE

UNUSUAL HAZARDS: NONE KNOWN

SPECIFIC METHODS: NO SPECIAL METHODS REQUIRED

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:

NO INFORMATION AVAILABLE

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: USE PERSONAL PROTECTIVE EQUIPMENT

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

CLEAN-UP METHODS - LARGE SPILLAGE. SOAK UP WITH INERT ABSORBENT MATERIAL. SWEEP UP AND SHOVEL INTO SUITABLE CONTAINERS FOR DISPOSAL. USE A WATER RINSE FOR FINAL CLEAN-UP.

7. HANDLING AND STORAGE**HANDLING:**

AVOID CONTACT WITH SKIN, EYES AND CLOTHING. DO NOT TASTE OR SWALLOW. REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE. WASH THOROUGHLY AFTER HANDLING. PRODUCT RESIDUE MAY REMAIN ON/IN EMPTY CONTAINERS. ALL PRECAUTIONS FOR HANDLING THE PRODUCT MUST BE USED IN HANDLING THE EMPTY CONTAINER AND RESIDUE. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

STORAGE:

PROTECT FROM FREEZING. KEEP TIGHTLY CLOSED IN A DRY, COOL AND

WELL-VENTILATED PLACE. KEEP OUT OF THE REACH OF CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



ENGINEERING MEASURES TO REDUCE EXPOSURE:

NO SPECIAL VENTILATION REQUIREMENTS. GENERAL ROOM VENTILATION IS ADEQUATE.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: CHEMICAL SPLASH GOGGLES.

HAND PROTECTION: CHEMICAL RESISTANT GLOVES

SKIN AND BODY PROTECTION: NO SPECIAL PROTECTIVE CLOTHING IS REQUIRED.

RESPIRATORY PROTECTION: NO SPECIAL PROTECTIVE CLOTHING IS REQUIRED.

HYGIENE MEASURES:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE

9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID

pH: 9.1

APPEARANCE: LIQUID

COLOR: CLEAR COLORLESS

ODOR: FRUITY FRESH

SPECIFIC GRAVITY: 1.015

DENSITY: 8.45 LBS/GAL

VOC: <0.1% *

FLASH POINT: >200 (DEG. F) >93.3 (DEG. C)

SOLUBILITY: EASILY SOLUBLE

VISCOSITY: NO INFORMATION AVAILABLE

BULK DENSITY: NO INFORMATION AVAILABLE

DILUTION pH: 8.5

VAPOR DENSITY: NO INFORMATION AVAILABLE

EVAPORATION RATE: NO INFORMATION AVAILABLE

BOILING POINT/RANGE: NOT DETERMINED

MELTING POINT/RANGE: NOT DETERMINED

DECOMPOSITION TEMPERATURE: NOT DETERMINED

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

PARTITION COEFFICIENT (n-OCTANOL/WATER): NO INFORMATION AVAILABLE

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

ELEMENTAL PHOSPHORUS: 0 %P

* - TITLE 17, CALIFORNIA CODE OF REGULATIONS, DIVISION 3, CHAPTER 1,
SUBCHAPTER 8.5, ARTICLE 2, CONSUMER PRODUCTS, SECTIONS 94508

10. STABILITY AND REACTIVITY



STABILITY: THE PRODUCT IS STABLE

POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: NONE REASONABLY FORESEEABLE.

11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

ORAL LD50 ESTIMATED TO BE BETWEEN 4000 - 5000 MG/KG

COMPONENT INFORMATION: SEE SECTION 3

CHRONIC TOXICITY: NONE KNOWN

SPECIFIC EFFECTS:

CARCINOGENIC EFFECTS: NONE KNOWN

MUTAGENIC EFFECTS: NONE KNOWN

REPRODUCTIVE TOXICITY: NONE KNOWN

TARGET ORGAN EFFECTS: NONE KNOWN

12. ECOLOGICAL INFORMATION



ENVIRONMENTAL INFORMATION: NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS



WASTE FROM RESIDUES / UNUSED PRODUCTS:

DISPOSE OF ACCORDING TO ALL FEDERAL, STATE AND LOCAL APPLICABLE REGULATIONS

14. TRANSPORT INFORMATION



DOT/TDG:

PLEASE REFER TO THE BILL OF LADING/RECEIVING DOCUMENTS FOR UP TO DATE
SHIPPING INFORMATION

**15. REGULATORY INFORMATION**

INTERNATIONAL INVENTORIES:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE FOLLOWING INVENTORIES:
U.S.A. (TSCA), CANADA (DSL/NDL), EUROPE (EINECS/ELINCS/NLP), AUSTRALIA (AICS).

U.S. REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER
CALIFORNIA'S PROPOSITION 65

STATE RIGHT TO KNOW:

INGREDIENT(S)	CAS #	MARTK	NJRTK	PARTK	RIRTK
WATER	7732-18-5				
SODIUM XYLENE SULFONATE	1300-72-7				
ALCOHOL ETHOXYLATES	34398-01-1				
DISODIUM 2-HYDROXYETHYLIMINODI (ACETATE)	135-37-5				

CERCLA/SARA:

SARA 311/312 HAZARD CATEGORIES:

IMMEDIATE (X)
DELAYED ()
FIRE ()
REACTIVITY ()

SUDDEN RELEASE OF PRESSURE:

CANADA:

WHMIS HAZARD CLASS: D2B TOXIC MATERIALS.

16. OTHER INFORMATION

REASON FOR REVISION: NOT APPLICABLE

PREPARED BY: NAPRAC

ADDITIONAL ADVICE: NONE

NOTICE TO READER:

THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED
TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR
IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL
CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS
RESPONSIBLE TO EVALUATE ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR
ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND
LOCAL LAWS AND REGULATIONS.

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MSDS

Common Name: TOUGH GUY SOY BASED HD PAINT REMOVER, TOUGH GUY SOY BASED GRAFFITI & HD PAINT RE**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 1/4/2010**MSDS Format:** No Format Specified**Grainger Item Number(s):** 3HFE5, 4YPD2**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

ISSUED: 10/1/08

REVISED: 1/4/10

W. W. GRAINGER, INC.
100 GRAINGER PARKWAY
LAKE FOREST, ILLINOIS 60045

SECTION I - IDENTIFICATION



PRODUCT NAME:

TOUGH GUY(TM) SOY BASED HD PAINT REMOVER

TOUGH GUY(TM) SOY BASED GRAFFITI & HD PAINT REMOVER

STOCK NO.: 3HFE5; 4YPD2

CHEMICAL NAME: SOY-BASED MIXTURE

CHEMICAL FAMILY: TRADE SECRET

CHEMICAL FORMULA: TRADE SECRET

HMIS:

HEALTH 1
FLAMMABILITY 1
PHYSICAL HAZARD 0
PPE B

NFPA:

HEALTH 1
FLAMMABILITY 1
REACTIVITY 0
SPECIAL HAZARD NONE

SECTION II - COMPOSITION INFORMATION ON INGREDIENT



TRADE SECRET:

SPECIFIC CHEMICAL IDENTITIES WILL BE MADE AVAILABLE TO MEDICAL PROFESSIONALS AND OTHERS AS REQUIRED BY 29 CFR 1910.1200 (I) (IV)

COMPOSITION: N-METHYL-2-PYRROLIDONE

WEIGHT: <40%

OSHA TWA: NK

ACGIH TLV: M

CAS NUMBER: 872-50-4

SECTION III - HAZARDS IDENTIFICATION



HEALTH HAZARDS (ACUTE AND CHRONIC):

ACUTE:

MAY CAUSE EYE IRRITATION. MAY CAUSE ABDOMINAL DISCOMFORT, NAUSEA, AND DIARRHEA IF SWALLOWED.

CHRONIC: NO KNOWN ADVERSE EFFECTS.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE KNOWN

SECTION IV - FIRST AID MEASURES



INHALATION: REMOVE TO FRESH AIR.

SKIN:

WASH THOROUGHLY WITH SOAP AND WATER. REMOVE SOILED CLOTHING AND WASH BEFORE REUSE.

INGESTION: GET MEDICAL ATTENTION.

EYES:

DO NOT RUB EYES. IMMEDIATELY FLUSH THOROUGHLY WITH PLENTY OF WATER. GET MEDICAL ATTENTION. IF DISCOMFORT OR SYMPTOMS DEVELOP, GET MEDICAL ATTENTION.

SECTION V - FIRE AND EXPLOSION HAZARD DATA



FLASH POINT (METHOD USED): >200 DEG. F - OPEN CUP

FLAMMABLE LIMITS: NOT DETERMINED

EXTINGUISHING MEDIA: WATER SPRAY, DRY CHEMICAL, FOAM AND CO2.

FIRE FIGHTING PROCEDURES:

TREAT AS OIL FIRE. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

FIRE AND EXPLOSION HAZARDS:

RAGS SOAKED WITH ANY SOLVENT PRESENT A FIRE HAZARD AND SHOULD ALWAYS BE STORED IN UL LISTED OR FACTORY MUTUAL APPROVED, COVERED CONTAINERS. IMPROPERLY STORED RAGS CAN CREATE CONDITIONS THAT LEAD TO SPONTANEOUS COMBUSTION. THIS PRODUCT CONTAINS ANTIOXIDANTS TO RETARD OXIDATION.

SECTION VI - ACCIDENTAL RELEASE MEASURES



AVOID UNCONTROLLED RELEASES OF THIS MATERIAL INTO THE ENVIRONMENT. CONTAIN SPILLED MATERIAL. WHERE NECESSARY, COLLECT USING ABSORBENT MEDIA. TRANSFER TO SECURE LABELLED CONTAINERS.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE



PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

STORE UPRIGHT IN A COOL, DRY WELL VENTILATED AREA, IN TIGHTLY CLOSED CONTAINERS AWAY FROM COMBUSTIBLE MATERIALS, MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY OTHER APPLICATIONS. THE STATED MSDS IS RELIABLE TO THE BEST OF THE COMPANY'S KNOWLEDGE AND BELIEVED ACCURATE AS OF THE DATE INDICATED.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION



VENTILATION/ENGINEERING CONTROLS: ADEQUATE GENERAL VENTILATION

RESPIRATORY PROTECTION:

NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST.

EYE PROTECTION: CHEMICAL SPLASH GOGGLES RECOMMENDED.

SKIN PROTECTION: IMPERVIOUS GLOVES RECOMMENDED.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WEAR SUITABLE CLOTHING TO AVOID SKIN CONTACT.

WORK/HYGIENIC PRACTICES:

DO NOT SMOKE IN AREAS OF STORAGE OR USE. AVOID CONTACT WITH EYES. WASH WITH SOAP AND WATER IMMEDIATELY AFTER HANDLING.

SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS



BOILING POINT: >483 DEG. F

SOLUBILITY IN WATER: PARTIALLY SOLUBLE

SPECIFIC GRAVITY (H₂O = 1): 0.994

MELTING POINT: 30 DEG. F

VOC (METHOD 310): 4.98%

APPEARANCE: LIGHT BROWN VISCOUS LIQUID

ODOR: MILD

SECTION X - STABILITY AND REACTIVITY



STABILITY: STABLE

CONDITIONS TO AVOID: EXCESSIVE HEAT OR OPEN FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS. ACIDS

HAZARDOUS DECOMPOSITION BYPRODUCTS: CO AND CO₂ MAY BE PRODUCED.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION XI - TOXICOLOGICAL INFORMATION



EYE IRRITANT. THIS PRODUCT DOES NOT CONTAIN ANY INGREDIENT DESIGNATED BY IARC, NTP, ACGIH OR OSHA AS A PROBABLE OR SUSPECTED HUMAN CARCINOGENS.

SECTION XII - ECOLOGICAL INFORMATION



AQUATIC TOXICITY RATING NOT DETERMINED. ALL POSSIBLE MEASURES SHOULD BE TAKEN TO PREVENT RELEASE INTO THE ENVIRONMENT.

SECTION XIII - DISPOSAL CONSIDERATIONS.



DISPOSAL OF ALL PRODUCT AND USED CLEAN UP MATERIALS MUST BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION XIV - TRANSPORT INFORMATION



NOT REGULATED.

SECTION XV - REGULATORY INFORMATION



U.S. FEDERAL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT (TSCA):

ALL COMPONENTS ARE INCLUDED IN THE EPATOXIC SUBSTANCE CONTROL ACT (TSCA) CHEMICAL SUBSTANCE INVENTORY.

OSHA HAZARD COMMUNICATION STANDARD (29CFR1910.1200) HAZARD CLASS(ES):
EYE IRRITANT.

STATE REGULATIONS:

STATE OF CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986
(PROPOSITION 65):
THIS PRODUCT CONTAINS ONE OR MORE CHEMICALS KNOWN TO THE STATE OF
CALIFORNIA TO CAUSE REPRODUCTIVE TOXICITY.

CONSULT THE REGULATIONS OF THE GIVEN STATE.

INTERNATIONAL REGULATIONS:

CONSULT THE REGULATIONS OF THE IMPORTING COUNTRY.

SECTION XVI - OTHER INFORMATION



MSDS IS RELIABLE TO THE BEST OF THE COMPANY'S KNOWLEDGE. FOR DETAILED MSDS,
CONTACT COMPANY.

[Close this window](#)

MSDS

Common Name: GLASS CLEANER**Manufacturer:** ZEP MANUFACTURING**MSDS Revision Date:** 8/5/2008**MSDS Format:** No Format Specified**Grainger Item Number(s):** 3HUU2, 5DPV0**Manufacturer Model Number(s):**

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ZEP PROFESSIONAL

MATERIAL SAFETY DATA SHEET

ZEP INC.

1310 SEABOARD INDUSTRIAL BLVD.

ATLANTA, GA 30318

1-877-793-7776

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: GLASS CLEANER

PRODUCT USE: CLEANER.

PRODUCT CODE: R047

DATE OF ISSUE: 08/05/08

SUPERSEDES:

EMERGENCY TELEPHONE NUMBERS:

FOR MSDS INFORMATION:

COMPLIANCE SERVICES: 1-877-793-7776

FOR MEDICAL EMERGENCY:

INFOTRAC: (877) 541-2016 TOLL FREE - ALL CALLS RECORDED

FOR TRANSPORTATION EMERGENCY:

CHEMTREC:

(800) 424-9300 - ALL CALLS RECORDED IN THE DISTRICT OF COLUMBIA

(202) 483-7616

PREPARED BY:

COMPLIANCE SERVICES

1420 SEABOARD INDUSTRIAL BLVD.

ATLANTA, GA 30318

SECTION 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING:

CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

CONTENTS UNDER PRESSURE.

*HAZARD DETERMINATION SYSTEM (HDS):

HEALTH 1

FLAMMABILITY 1

REACTIVITY 0

NOTE:

MSDS DATA PERTAINS TO THE PRODUCT AS DELIVERED IN THE ORIGINAL SHIPPING CONTAINER(S). RISK OF ADVERSE EFFECTS ARE LESSENERED BY FOLLOWING ALL PRESCRIBED SAFETY PRECAUTIONS, INCLUDING THE USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT.

ROUTES OF ENTRY: DERMAL CONTACT. INHALATION.

ACUTE EFFECTS:

EYES:

CAUSES EYE IRRITATION. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING AND ITCHING.

SKIN:

MAY CAUSE SKIN IRRITATION. SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, OR REDDENING.

INHALATION:

AVOID BREATHING VAPORS, SPRAY OR MISTS. OVER-EXPOSURE BY INHALATION MAY CAUSE RESPIRATORY IRRITATION. INHALATION OF SPRAY MISTS OR VAPORS MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY HEADACHE, DIZZINESS, NAUSEA, AND/OR STUPOR.

INGESTION:

MAY BE HARMFUL IF SWALLOWED. ASPIRATION HAZARD IF SWALLOWED.

CAN ENTER LUNGS AND CAUSE DAMAGE.

CHRONIC EFFECTS:

REPEATED OR PROLONGED EXPOSURE TO SPRAY OR MIST MAY PRODUCE RESPIRATORY TRACT IRRITATION, LEADING TO FREQUENT ATTACKS OF BRONCHIAL INFECTION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: KIDNEYS, LIVER, CENTRAL NERVOUS SYSTEM (CNS), EARS.

CARCINOGENICITY INGREDIENTS: NOT LISTED AS CARCINOGEN BY OSHA, NTP OR IARC.

ADDITIONAL INFORMATION: SEE TOXICOLOGICAL INFORMATION (SECTION 11)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



NAME OF HAZARDOUS INGREDIENTS	CAS NUMBER	% BY WEIGHT
ISOPARAFFINIC SOLVENT; HYDROTREATED LIGHT DISTILLATE (PETROLEUM)	64741-73-7	10 - 20
HYDROCARBON PROPELLANT; BLEND OF PROPANE & ISOBUTANE	75-28-5; 74-98-6	10 - 20
MINERAL OIL; PETROLATUM; MINERAL OIL, WHITE.	8042-47-5	5 - 15

SECTION 4. FIRST AID MEASURES



EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. CHECK FOR AND REMOVE ANY CONTACT LENSES. CONTINUE TO RINSE FOR AT LEAST 10 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

FLUSH CONTAMINATED SKIN WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INHALATION:

MOVE EXPOSED PERSON TO FRESH AIR. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. IF VOMITING OCCURS, THE HEAD SHOULD BE KEPT LOW SO THAT VOMIT DOES NOT ENTER THE LUNGS. IF AFFECTED PERSON IS CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5. FIRE FIGHTING MEASURES



NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

1
1
0

FLASH POINT: NOT AVAILABLE.

FLAMMABLE LIMITS: NOT AVAILABLE.

FLAMMABILITY: NON-FLAMMABLE. (CSMA METHOD)

FIRE HAZARD:

CONTENTS UNDER PRESSURE. IN A FIRE OR IF HEATED, A PRESSURE INCREASE WILL OCCUR AND THE CONTAINER MAY BURST, WITH THE RISK OF A SUBSEQUENT EXPLOSION. BURSTING AEROSOL CONTAINERS MAY BE PROPELLED FROM A FIRE AT HIGH SPEED.

FIRE-FIGHTING PROCEDURES:

USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE.
COOL CLOSED CONTAINERS EXPOSED TO FIRE WITH WATER. FIRE-FIGHTERS SHOULD WEAR APPROPRIATE PROTECTIVE EQUIPMENT.

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP: LARGE SPILLS ARE UNLIKELY DUE TO PACKAGING.

SECTION 7. HANDLING AND STORAGE**HANDLING:**

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME OR ANY OTHER IGNITION SOURCE. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. DO NOT BREATHE VAPOR OR MIST. DO NOT INGEST. USE ONLY WITH ADEQUATE VENTILATION. OBSERVE LABEL PRECAUTIONS. WASH THOROUGHLY AFTER HANDLING.

STORAGE:

CONTENTS UNDER PRESSURE. DO NOT PUNCTURE, INCINERATE OR STORE THE CONTAINER AT TEMPERATURES ABOVE 49 DEG. C (120 DEG. F) OR IN DIRECT SUNLIGHT. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PRODUCT NAME	EXPOSURE LIMITS
HYDROCARBON PROPELLANT; BLEND OF PROPANE & ISOBUTANE	ACGIH TLV / OSHA PEL (UNITED STATES). NOTES: PROPANE TWA: 1000 PPM 8 HOUR(S).
ETHANOL; ETHYL ALCOHOL; GRAIN ALCOHOL	ACGIH TLV / OSHA PEL (UNITED STATES). TWA: 1000 PPM 8 HOUR(S).
ISOPROPYL ALCOHOL; IPA; DIMETHYLCARBINOL; 2-PROPANOL	ACGIH TLV (UNITED STATES). TWA: 200 PPM 8 HOUR(S). OSHA PEL (UNITED STATES). TWA: 400 PPM 8 HOUR(S). ACGIH/OSHA (UNITED STATES). STEL: 400 PPM 15 MINUTE(S).

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYES: SAFETY GLASSES.

BODY:

FOR PROLONGED OR REPEATED HANDLING, USE THE FOLLOWING TYPE OF GLOVES:
NEOPRENE GLOVES. NITRILE GLOVES. RUBBER GLOVES.

RESPIRATORY: USE WITH ADEQUATE VENTILATION.

SAFETY GLASSES
GLOVES

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID. (AEROSOL.)

COLOR: CLEAR. COLORLESS.

pH: 10.0 - 11.0

ODOR: PLEASANT.

BOILING POINT: 96.11 DEG. C (205 DEG. F)

VAPOR PRESSURE: NOT DETERMINED.

SPECIFIC GRAVITY: 0.95

VAPOR DENSITY: NOT DETERMINED.

SOLUBILITY:

EASILY SOLUBLE IN THE FOLLOWING MATERIALS: COLD WATER AND HOT WATER.

EVAPORATION RATE: >1 (WATER = 1)

VOC (CONSUMER): 116.18 (G/L). 0.97 LBS/GAL (11.90%)

SECTION 10. STABILITY AND REACTIVITY



STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY:

KEEP AWAY FROM HEAT, SPARKS AND FLAME. REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS: OXIDIZING MATERIALS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES (CO, CO2)

SECTION 11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
ETHANOL	LD50 ORAL	RAT	7060 MG/KG	
	LC50 INHALATION VAPOR	RAT	20000 MG/M3	4 HOURS
ISOPROPYL ALCOHOL	LD50 DERMAL	RABBIT	13000 MG/KG	
	LD50 ORAL	RAT	4700 MG/KG	
	LC50 INHALATION VAPOR	RAT	22500 PPM	8 HOURS
	LC50 INHALATION VAPOR	RAT	19000 PPM	8 HOURS

SECTION 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

AQUATIC ECOTOXICITY: NOT AVAILABLE.

SECTION 13. DISPOSAL CONSIDERATIONS**WASTE INFORMATION:**

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES FOR ADDITIONAL INFORMATION.

WASTE STREAM: NON-HAZARDOUS WASTE

SECTION 14. TRANSPORT INFORMATION

REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PG*	LABEL
DOT CLASSIFICATION	NOT REGULATED.	CONSUMER COMMODITY ORM-D			
IMDG CLASS	NOT DETERMINED.				

NOTE:

DOT CLASSIFICATION APPLIES TO MOST PACKAGE SIZES. FOR SPECIFIC CONTAINER SIZE CLASSIFICATIONS OR FOR SIZE EXCEPTIONS, REFER TO THE BILL OF LADING WITH YOUR SHIPMENT.

PG*: PACKING GROUP

SECTION 15. REGULATORY INFORMATION**U.S. FEDERAL REGULATIONS:**

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:
NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 307: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 311: NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES: NO PRODUCTS WERE FOUND.

ALL COMPONENTS OF THIS PRODUCT ARE LISTED OR EXEMPT FROM LISTING ON TSCA INVENTORY.

STATE REGULATIONS:

CALIFORNIA PROP 65: NO PRODUCTS WERE FOUND.

SECTION 16. OTHER INFORMATION

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS SUBSIDIARIES ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

*NOTE:

HAZARD DETERMINATION SYSTEM (HDS) RATINGS ARE BASED ON A 0-4 RATING SCALE, WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS ALTHOUGH THESE RATINGS ARE NOT REQUIRED ON MSDSS UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM. HDS RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED PROGRAM TO RELAY THE MEANINGS OF THIS SCALE.

[Close this window](#)

MSDS

Common Name: TOUGH GUY BIOLOGICAL BATHROOM CLEANER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 1/12/2010**MSDS Format:** No Format Specified**Grainger Item Number(s):** 5DJC4**Manufacturer Model Number(s):**

MSDS Table of Contents

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MATERIAL SAFETY DATA SHEET

GRAINGER(R*)

FOR THE ONE WHO GET IT DONE

MANUFACTURED FOR:

W.W. GRAINGER, INC.

100 GRAINGER PKWY

LAKE FOREST, IL 60045-5201

1-847-535-1000

WWW.GRAINGER.COM

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: TOUGH GUY BIOLOGICAL BATHROOM CLEANER

PRODUCT USE: BATHROOM CLEANER.

PRODUCT CODE: 5DJC4

DATE OF ISSUE: 01/12/10

SUPERSEDES:

EMERGENCY TELEPHONE NUMBERS:

FOR MSDS INFORMATION:

TECHNICAL SERVICES: 1-847-535-5400

FOR MEDICAL EMERGENCY: (800) 983-4582 TOLL FREE

FOR TRANSPORTATION EMERGENCY:

CHEMTREC: (800) 424-9300 - ALL CALLS RECORDED
IN THE DISTRICT OF COLUMBIA: (202) 483-7616

PREPARED BY:

COMPLIANCE SERVICES

1420 SEABOARD INDUSTRIAL BLVD.

ATLANTA, GA 30318

SECTION 2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

WARNING!

CAUSES EYE IRRITATION.

NOTE:

MSDS DATA PERTAINS TO THE PRODUCT AS DELIVERED IN THE ORIGINAL SHIPPING CONTAINER(S). RISK OF ADVERSE EFFECTS ARE LESSENED BY FOLLOWING ALL PRESCRIBED SAFETY PRECAUTIONS, INCLUDING THE USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT.

*HAZARD DETERMINATION SYSTEM (HDS):

HEALTH 1

FLAMMABILITY 0

REACTIVITY 0

ROUTES OF ENTRY: EYE CONTACT.

ACUTE EFFECTS:

EYES:

CAUSES EYE IRRITATION. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING AND ITCHING.

SKIN:

MAY CAUSE SLIGHT IRRITATION IN SENSITIVE INDIVIDUALS. MAY CAUSE ALLERGIC REACTIONS IN CERTAIN INDIVIDUALS.

INHALATION: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

INGESTION: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

CHRONIC EFFECTS:

REPEATED OR PROLONGED EXPOSURE TO SPRAY OR MIST MAY PRODUCE RESPIRATORY TRACT IRRITATION LEADING TO FREQUENT ATTACKS OF BRONCHIAL INFECTION.

CARCINOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

PRODUCT/INGREDIENT NAME	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
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NONE.

ADDITIONAL INFORMATION: SEE TOXICOLOGICAL INFORMATION (SECTION 11)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



NAME OF HAZARDOUS INGREDIENTS	CAS NUMBER	% BY WEIGHT
VIABLE BACTERIAL CULTURES	PROPRIETARY	1 - 5

SECTION 4. FIRST AID MEASURES



EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. CHECK FOR AND REMOVE ANY CONTACT LENSES. CONTINUE TO RINSE FOR AT LEAST 10 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

FLUSH AFFECTED SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INHALATION:

MOVE EXPOSED PERSON TO FRESH AIR. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. IF AFFECTED PERSON IS CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5. FIRE FIGHTING MEASURES



NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

1
0
0

FLASH POINT: NOT APPLICABLE.

FLAMMABLE LIMITS: NOT AVAILABLE.

FLAMMABILITY: NON-COMBUSTIBLE.

FIRE HAZARD: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

FIRE-FIGHTING PROCEDURES:

USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE.

SECTION 6. ACCIDENTAL RELEASE MEASURES



SPILL CLEAN UP:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. DILUTE WITH WATER AND MOP UP IF WATER-SOLUBLE. ALTERNATIVELY, OR IF WATER-INSOLUBLE, ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER.

SECTION 7. HANDLING AND STORAGE



HANDLING:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. DO NOT REUSE CONTAINER. WASH THOROUGHLY AFTER HANDLING.

STORAGE:

STORE IN ORIGINAL CONTAINER PROTECTED FROM DIRECT SUNLIGHT IN A DRY, COOL AND WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10) AND FOOD AND DRINK. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE.

STORE BETWEEN THE FOLLOWING TEMPERATURES:

40 DEG. F - 120 DEG. F (4.4 DEG. C - 49 DEG. C).

DO NOT STORE IN UNLABELED CONTAINERS. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



PRODUCT NAME

EXPOSURE LIMITS

NO EXPOSURE LIMIT VALUE KNOWN.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYES: SAFETY GLASSES.

BODY:

RECOMMENDED: NEOPRENE GLOVES. RUBBER GLOVES. NITRILE GLOVES.

RESPIRATORY:

A RESPIRATOR IS NOT NEEDED UNDER NORMAL AND INTENDED CONDITIONS OF PRODUCT USE.

SAFETY GLASSES
GLOVES

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID.

COLOR: LIGHT BLUE. OPAQUE.

pH: 7.5 TO 8.5

ODOR: FRESH, PLEASANT.

BOILING POINT: 100 DEG. C (212 DEG. F)

VAPOR PRESSURE: NOT DETERMINED.

SPECIFIC GRAVITY: 1

VAPOR DENSITY: NOT DETERMINED.

SOLUBILITY:

SOLUBLE IN THE FOLLOWING MATERIALS: COLD WATER AND HOT WATER.

EVAPORATION RATE: 1 COMPARED TO WATER

VOC (CONSUMER): 0 G/L

SECTION 10. STABILITY AND REACTIVITY



STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY:

SLIGHTLY REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS:
ACIDS AND ALKALIS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS:

UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS DECOMPOSITION
PRODUCTS SHOULD NOT BE PRODUCED.

SECTION 11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY: NOT AVAILABLE.

SECTION 12. ECOLOGICAL INFORMATION



ENVIRONMENTAL EFFECTS: NOT AVAILABLE.

AQUATIC ECOTOXICITY: NOT AVAILABLE.

SECTION 13. DISPOSAL CONSIDERATIONS



WASTE INFORMATION:

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ENVIRONMENTAL CONTROL REGULATIONS. CONSULT YOUR LOCAL OR REGIONAL
AUTHORITIES FOR ADDITIONAL INFORMATION.

WASTE STREAM: NON-HAZARDOUS WASTE

SECTION 14. TRANSPORT INFORMATION



REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PG*	LABEL
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DOT CLASSIFICATION	NOT	NOT A DOT CONTROLLED
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REGULATED. MATERIAL
(UNITED STATES) .

NOTE:

DOT CLASSIFICATION APPLIES TO MOST PACKAGE SIZES. FOR SPECIFIC CONTAINER SIZE CLASSIFICATIONS OR FOR SIZE EXCEPTIONS, REFER TO THE BILL OF LADING WITH YOUR SHIPMENT.

PG*: PACKING GROUP

SECTION 15. REGULATORY INFORMATION



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CALIFORNIA PROP 65: NO PRODUCTS WERE FOUND.

SECTION 16. OTHER INFORMATION



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[Close this window](#)

MSDS

Common Name: 5GUU0**Manufacturer:** VENUS LABORATORIES**MSDS Revision Date:** 1/22/2010**MSDS Format:** No Format Specified**Grainger Item Number(s):** 5GUU0**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

VENUS LABORATORIES
855 LIVELY BLVD
P.O. BOX 607
WOOD DALE IL 60191

PRINTED DATE: 1/22/2010

MSDS ID: 5GUU0

VER. DATE: 01/22/2010

EMERGENCY CONTACT DATA:

EMERGENCY CONTACT INFO:
CHEMTREC INFORMATION: 800-424-9300
PHONE NUMBER: 630-595-1900
OTHER CONTACT INFO:

SECTION 1 - IDENTIFICATION



NAME: 5GUU0

DESCRIPTION: TOUGH GUY LIQUID LEMON NON-ABRASIVE CLEA

SECTION 2 - CHEMICAL COMPOSITION

ITEM	NAME	CAS NO.	% WT			
ITEM	OSHA		EXPOSURE LIMITS		ACGIH	
	PEL-TWA	PEL-CEILIN	TLV-TWA	TLV-STEL	TLV-TWA	TLV-STEL

SECTION 3 - HAZARDOUS IDENTIFICATIONS

EMERGENCY OVERVIEW: NON-HAZARDOUS PRODUCT

ACUTE EFFECTS: EYES AND SKIN IRRITATION

CHRONIC EFFECTS: NONE KNOWN

LONG TERM AGGRAVATION: NONE KNOWN

SECTION 4 - FIRST AID MEASURES

INHALATION: REMOVE TO FRESH AIR

EYE CONTACT:

FLUSH WITH WATER, IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION

SKIN CONTACT: FLUSH WITH WATER

INGESTION: GET MEDICAL ATTENTION

NOTE TO PHYSICIAN: NONE

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE LIMITS: NONE KNOWN

EXTINGUISHING MEDIA: CARBON DIOXIDE, FOAM, DRY CHEMICAL

UNUSUAL FIRE OR EXPLOSION HAZARDS: NONE

HAZARDOUS COMBUSTION PRODUCTS: NONE

FIRE FIGHTING INSTRUCTIONS: NONE

FIRE FIGHTING EQUIPMENT: USE SELF-CONTAINED BREATHING APPARATUS.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

LEAK OR SPILL PROCEDURES: MOP UP OR GATHER INTO SUITABLE CONTAINER

SMALL SPILLS: MOP UP OR GATHER INTO SUITABLE CONTAINER

LARGE SPILL PROCEDURE: MOP UP OR GATHER INTO SUITABLE CONTAINER

SECTION 7 - HANDLING AND STORAGE



HANDLING PRECAUTIONS: KEEP IN COOL, DRY AREA, ABOVE FREEZING TEMPERATURE

STORAGE REQUIREMENTS: KEEP IN COOL, DRY AREA, ABOVE FREEZING TEMPERATURE

REGULATORY REQUIREMENTS: N/A

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECT



ENGINEERING AND VENTILATION: NORMAL VENTILATION

ADMINISTRATIVE CONTROLS: N/A

PROTECTIVE EQUIPMENT: RUBBER GLOVES AND GOGGLES.

CONTAMINATED EQUIPMENT: WASH WITH SOAP AND WATER.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES



APPEARANCE: OPAQUE CREAM

COLOR: WHITE TO OFF-WHITE

ODOR: LEMON

pH: 8-9

SECTION 10 - STABILITY AND REACTIVITY



STABILITY PARAGRAPH: STABLE

INCOMPATIBILITIES PARAGRAPH: STRONG ACIDS, STRONG ALKALIES, OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS: NONE KNOWN

SECTION 11 - TOXICOLOGY INFORMATION



TOXICOLOGY INFORMATION: N/A

SECTION 12 - ECOLOGICAL INFORMATION



ECOLOGICAL DATA: N/A

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL PARAGRAPH:

ANY METHOD SUBJECT TO LOCAL STATE AND FEDERAL REGULATIONS.

SECTION 14 - TRANSPORT INFORMATION

INTRODUCTION: N/A

SECTION 15 - REGULATORY INFORMATION

THIS SECTION LEFT BLANK INTENTIONALLY

SECTION 16 - NOTICES AND DISCLAIMER

NOTICES:

THE INFORMATION CONTAINED ON THIS MSDS HAS BEEN CHECKED AND SHOULD BE ACCURATE. HOWEVER, IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL FEDERAL, STATE/PROVINCIAL, AND LOCAL REGULATIONS.

DISCLAIMER:

THE INFORMATION CONTAINED HEREIN IS PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE AS OF THE EFFECTIVE DATE SHOWN ABOVE. HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED IS GIVEN. REGULATORY REQUIREMENTS ARE SUBJECT TO CHANGE AND MAY DIFFER FROM ONE LOCATION TO ANOTHER; IT IS THE BUYER'S RESPONSIBILITY TO ENSURE THAT ITS ACTIVITIES COMPLY WITH FEDERAL, STATE, OR PROVINCIAL, AND LOCAL REGULATIONS.

ITEM NO.: 5GUU0

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MSDS

Common Name: TOUGH GUY CARPET EXTRACTION-GALLON**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 1/18/2010**MSDS Format:** No Format Specified**Grainger Item Number(s):** 5RVT6**Manufacturer Model Number(s):**

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[SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION](#)
[SECTION III - PHYSICAL CHARACTERISTICS](#)
[SECTION IV - FIRE AND EXPLOSION HAZARD DATA](#)
[SECTION V - REACTIVITY DATA](#)
[SECTION VI - TOXICOLOGICAL PROPERTIES](#)
[SECTION VII - PREVENTATIVE MEASURES](#)
[SECTION VIII - FIRST AID](#)
[SECTION IX - PREPARATION INFORMATION](#)

MATERIAL SAFETY DATA SHEET

MSDS: 151_022310

SECTION I - PRODUCT IDENTIFICATION



PRODUCT NAME: TOUGH GUY CARPET EXTRACTION-GALLON

PRODUCT CODE NUMBER: 151

PRODUCT USE: CLEANER

WHMIS CLASS: CLASS D - DIVISION 2B

DOT CLASSIFICATION: NOT REGULATED AS DANGEROUS GOODS

TDG CLASSIFICATION: NOT REGULATED AS DANGEROUS GOODS

MANUFACTURER/SUPPLIER:

W. W. GRAINGER, INC.
100 GRAINGER PARKWAY
LAKE FOREST, IL 60045

GENERAL ASSISTANCE: 800-323-0620

EMERGENCY TELEPHONE: 800-535-5053

HMIS/NFPA:

HEALTH 1
FLAMMABILITY 0
PHYSICAL HAZARD 0
PERSONAL PROTECTION B

LEGEND:

SEVERE 4
SERIOUS 3
MODERATE 2
SLIGHT 1
MINIMAL 0

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENT(S)	CAS#	WT%
1-OCTANESULFONIC ACID, SODIUM SALT	5324-84-5	1-5
CARBONIC ACID, SODIUM SALT (2:3)	533-96-0	1-5
SODIUM CITRATE	24851-98-7	1-5

INGREDIENT(S)	OSHA PELS	ACGIH-TLV	LC50	ORAL LD50
1-OCTANESULFONIC ACID, SODIUM SALT	NOT ESTABLISHED	NOT ESTABLISHED	NOT AVAILABLE	5000 MG/KG RAT
CARBONIC ACID, SODIUM SALT (2:3)	NOT ESTABLISHED	NOT ESTABLISHED	NOT AVAILABLE	5600 MG/KG RAT
SODIUM CITRATE	NOT ESTABLISHED	NOT ESTABLISHED	NOT AVAILABLE	NOT AVAILABLE

SECTION III - PHYSICAL CHARACTERISTICS

BOILING POINT: 100 DEG. C

FREEZING POINT: 0 DEG. C

VAPOR PRESSURE: SAME AS WATER

VAPOR DENSITY: SAME AS WATER

SOLUBILITY IN WATER: COMPLETE

PHYSICAL STATE: LIQUID

APPEARANCE: COLORLESS LIQUID

ODOR: CHARACTERISTIC

pH (USE SOLUTION): 8.0 - 9.8

SPECIFIC GRAVITY: 1.06-1.08 @ 25 DEG. C (77 DEG. F) (H2O = 1)

COEFFICIENT OF WATER/OIL DISTRIBUTION: NOT AVAILABLE

% VOLATILE: 85-90%

EVAPORATION RATE: 1 (H₂O = 1)

pH: 9.3 - 9.8

VISCOSITY: SAME AS WATER

ODOR THRESHOLD: LOW ODOR

ADDED FRAGRANCE: NONE

SECTION IV - FIRE AND EXPLOSION HAZARD DATA



FLAMMABILITY: NOT FLAMMABLE BY WHIMIS/OSHA CRITERIA

FLASH POINT: >100.00 DEG. C (>212 DEG. F)

LEL: NOT AVAILABLE

UEL: NOT AVAILABLE

HAZARDOUS COMBUSTION PRODUCTS:

MAY INCLUDE AND ARE NOT LIMITED TO: OXIDES OF SODIUM. OXIDES OF CARBON.

AUTOIGNITION TEMPERATURE: NOT AVAILABLE

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT: NOT AVAILABLE

SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE

MEANS OF EXTINCTION:

DRY CHEMICAL. WATER SPRAY. ALCOHOL FOAM. CARBON DIOXIDE.

SPECIAL FIRE HAZARDS:

FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS.

SECTION V - REACTIVITY DATA



CONDITIONS FOR CHEMICAL INSTABILITY:

STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS. ACIDS.

REACTIVITY, AND UNDER WHAT CONDITIONS: DO NOT MIX WITH OTHER CHEMICALS.

HAZARDOUS DECOMPOSITION PRODUCTS:

MAY INCLUDE AND ARE NOT LIMITED TO:

OXIDES OF SODIUM. OXIDES OF CARBON WHEN HEATED TO DECOMPOSITION.

SECTION VI - TOXICOLOGICAL PROPERTIES



ROUTE OF ENTRY: EYE, SKIN CONTACT, INHALATION, INGESTION.

EFFECTS OF ACTIVE EXPOSURE:

EYE: MAY CAUSE IRRITATION.

SKIN: MAY CAUSE IRRITATION.

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION.

INGESTION: MAY CAUSE STOMACH DISTRESS, NAUSEA OR VOMITING.

EFFECTS OF CHRONIC EXPOSURE:

SKIN:

PROLONGED OR REPEATED EXPOSURE CAN CAUSE DRYING, DEFATTING AND DERMATITIS.

IRRITANCY: HAZARDOUS BY WHMIS/OSHA CRITERIA.

RESPIRATORY TRACT SENSITIZATION: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA.

CARCINOGENICITY: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA.

TERATOGENICITY: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA.

MUTAGENICITY: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA.

REPRODUCTIVE EFFECTS: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA.

SYNERGISTIC MATERIALS: NOT AVAILABLE

SECTION VII - PREVENTATIVE MEASURES



GLOVES: RUBBER GLOVES. CONFIRM WITH A REPUTABLE SUPPLIER FIRST.

EYE PROTECTION: SAFETY GLASSES

RESPIRATORY PROTECTION:

NOT NORMALLY REQUIRED IF GOOD VENTILATION IS MAINTAINED.

OTHER PROTECTIVE EQUIPMENT: AS REQUIRED BY EMPLOYER CODE.

ENGINEERING CONTROLS: GENERAL VENTILATION NORMALLY ADEQUATE.

LEAK AND SPILL PROCEDURE:

BEFORE ATTEMPTING CLEAN UP, REFER TO HAZARD DATA GIVEN ABOVE. SMALL SPILLS MAY BE ABSORBED WITH NON-REACTIVE ABSORBENT AND PLACED IN SUITABLE, COVERED, LABELED CONTAINERS. PREVENT LARGE SPILLS FROM ENTERING SEWERS OR WATERWAYS. CONTACT EMERGENCY SERVICES AND SUPPLIER FOR ADVICE.

WASTE DISPOSAL:

REVIEW FEDERAL, STATE/PROVINCIAL, AND LOCAL GOVERNMENT REQUIREMENTS PRIOR TO DISPOSAL.

HANDLING REQUIREMENTS:

USE GOOD INDUSTRIAL HYGIENE PRACTICES IN HANDLING THIS MATERIAL. WASH HANDS BEFORE BREAKS AND IMMEDIATELY AFTER HANDLING THE PRODUCT.

STORAGE REQUIREMENTS:

KEEP OUT OF REACH OF CHILDREN. STORE IN A CLOSED CONTAINER AWAY FROM INCOMPATIBLE MATERIALS, KEEP IN A DRY, COOL PLACE. AVOID STORAGE UNDER DIRECT SUNLIGHT.

SECTION VIII - FIRST AID



EYE:

FLUSH WITH COOL WATER. REMOVE CONTACT LENSES, IF APPLICABLE, AND CONTINUE FLUSHING. OBTAIN MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN:

FLUSH WITH COOL WATER. WASH WITH SOAP AND WATER. OBTAIN MEDICAL ATTENTION OF IRRITATION PERSISTS.

INHALATION:

IF SYMPTOMS DEVELOP MOVE VICTIM TO FRESH AIR. IF SYMPTOMS PERSIST OBTAIN MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER AND THEN DRINK ONE OR TWO GLASSES OF WATER. OBTAIN MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH IF VICTIM IS UNCONSCIOUS, OR IF CONVULSING.

SECTION IX - PREPARATION INFORMATION

EFFECTIVE DATE: 18-JAN-2010

EXPIRY DATE: 18-JAN-2013

ISSUE DATE: 18-JAN-2010

PREPARED BY: CLAIRE MANUFACTURING, ATTN: REGULATORY MANAGER 630-543-7600

INFORMATION CONTAINED HEREIN WAS OBTAINED FROM SOURCES CONSIDERED TECHNICALLY ACCURATE AND RELIABLE. WHILE EVERY EFFORT HAS BEEN MADE TO ENSURE FULL DISCLOSURE OF PRODUCT HAZARDS, IN SOME CASES DATA IS NOT AVAILABLE AND IS SO STATED. SINCE CONDITIONS OF ACTUAL PRODUCT USE ARE BEYOND CONTROL OF THE SUPPLIER, IT IS ASSUMED THAT THE USERS OF THIS MATERIAL HAVE BEEN FULLY TRAINED ACCORDING TO THE REQUIREMENTS OF ALL APPLICABLE LEGISLATION AND REGULATORY INSTRUMENTS. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE AND SUPPLIER WILL NOT BE LIABLE FOR ANY LOSSES, INJURIES OR CONSEQUENTIAL DAMAGES WHICH MAY RESULT FROM THE USE OF OR RELIANCE ON ANY INFORMATION CONTAINED IN THIS DOCUMENT.

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MSDS

Common Name: TOUGH GUY - ODOR FREE**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 8/1/2006**MSDS Format:** No Format Specified**Grainger Item Number(s):** 16W262**Manufacturer Model Number(s):**

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W.W. GRAINGER, INC.
100 LAKE FOREST PARKWAY
LAKE FOREST, IL 60045-5201

TOUGH GUY

EMERGENCY CONTACT: 800-983-4582

TECHNICAL SERVICE: 847-535-5400

TELEPHONE NUMBER: 847-535-1000

MATERIAL SAFETY DATA SHEET

DATE: 08/01/2006

SECTION I - PRODUCT IDENTIFICATION



NAME: TOUGH GUY - ODOR FREE

DOT CLASS: NON-REGULATED

UN NUMBER: NA

PROPER SHIPPING NAME: NA

HMIS RATING & CANADIAN WHMIS CLASSIFICATION:

HEALTH 1

FIRE 0

REACTIVITY 0

CANADIAN WHMIS CLASSIFICATION: D2B

CANADIAN FOOD INSPECTION AGENCY:

THIS PRODUCT HAS BEEN APPROVED BY THE CANADIAN FOOD INSPECTION AGENCY (CFIA) FOR USE IN REGISTERED ESTABLISHMENTS PROVIDED THAT IT IS USED IN KEEPING WITH THE INSTRUCTIONS OUTLINED ON THE PRODUCT LABEL.

SECTION II - INGREDIENTS



ALL COMPONENTS APPEAR ON THE TSCA INVENTORY. COMPONENTS NOT LISTED ARE EITHER NON HAZARDOUS OR IN CONCENTRATIONS OF LESS THAN 1%.

INGREDIENT NAME	CAS NUMBER	OSHA PEL	ACGIH TLV/TWA
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PROPRIETARY FORMULATION

SECTION III - PHYSICAL CHARACTERISTICS



BOILING POINT: 100C

APPEARANCE AND ODOR: OPAQUE LIQUID, SLIGHT ODOR

SPECIFIC GRAVITY: APPROXIMATELY 1

MELTING POINT: NA

PH: 7.5 - 8.5

VAPOR DENSITY: EQUIVALENT TO WATER

VAPOR PRESSURE: EQUIVALENT TO WATER

SOLUBILITY: COMPLETE

SECTION IV - FIRE/EXPLOSION



FLASH POINT: NA

FLASH POINT METHOD USED: NA

LEL: NA

UEL: NA

EXTINGUISHING MEDIA: WATER SPRAY, CARBON DIOXIDE, AND DRY CHEMICAL POWDER

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN

SECTION V - REACTIVITY DATA



STABLE (X)

UNSTABLE ()

INCOMPATIBILITY: NOT KNOWN

HAZARDOUS DECOMPOSITION OR BY PRODUCTS: NOT KNOWN

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA



ACUTE HEALTH AFFECTS:

ROUTE OF ENTRY:

INHALATION: NO

ABSORPTION: YES

INGESTION: YES

EYES: YES

EYES: THIS PRODUCT MAY CAUSE EYE IRRITATION.

SKIN CONTACT: COULD CAUSE MILD SKIN IRRITATION AFTER PROLONGED CONTACT.

INHALATION:

INHALING MIST FROM THIS PRODUCT COULD CAUSE IRRITATION TO THE LUNGS AND MUCUS MEMBRANES.

INGESTION: INGESTION MAY RESULT IN ABDOMINAL PAIN, NAUSEA AND VOMITING.

CONDITIONS TO AVOID:

STRONG ACIDS OR ALKALI COMPOUNDS MAY INACTIVATE BIOLOGICAL CULTURES.

SIGNS AND SYMPTOMS OF OVER EXPOSURE: NONE KNOWN

AGGRAVATED MEDICAL CONDITIONS:

NONE KNOWN, HOWEVER PERSONS WITH RESPIRATORY PROBLEMS SHOULD AVOID BREATHING ANY MIST FROM THIS PRODUCT.

EMERGENCY FIRST AID PROCEDURES:

EYE CONTACT:

RINSE EYES WITH WATER FOR FIFTEEN MINUTES, IF IRRITATION PERSISTS, SEE A PHYSICIAN.

INHALATION:

MOVE PERSON TO FRESH AIR AND AVOID BREATHING DUST FROM PRODUCT.

IF BREATHING PROBLEMS DEVELOP, SEEK THE CARE OF A PHYSICIAN.

SKIN CONTACT:

WASH THE PRODUCT OFF THE SKIN WITH SOAP AND WATER; IF IRRITATION DEVELOPS SEEK THE CARE OF A PHYSICIAN.

INGESTION:

WATCH VICTIM FOR ANY SIGNS OF ILLNESS, INDUCE VOMITING ONLY IF ADVISED BY A PHYSICIAN.

SECTION VII - SPILL OR LEAK PROCEDURE



STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR LEAKED:

WASTE DISPOSAL METHOD:

CONTAIN AND COLLECT MATERIAL, PLACE IN PROPER CONTAINER FOR REUSE OR DISPOSAL. DISPOSE OF MATERIALS IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN A LOCATION AWAY FROM CHILDREN, FOOD ITEMS AND POTABLE WATER.

STORE IN AN AREA OUT OF THE DIRECT SUNLIGHT, KEEP CONTAINER CLOSED WHEN NOT IN USE, AVOID STORING IN A DAMP ENVIRONMENT.

ALWAYS WASH HANDS WITH SOAP AND WATER BEFORE HANDLING FOOD OR SMOKING.

USE GOOD CHEMICAL HYGIENE PRACTICES WHEN WORKING WITH ANY CHEMICAL.

OTHER PRECAUTIONS: NONE

SECTION VIII - CONTROL MEASURES (PPE)



RESPIRATORY PROTECTION: NONE REQUIRED FOR NORMAL USE.

PROTECTIVE GLOVES:

RECOMMENDED. DISPOSABLE NITRILE EXAM GLOVES ARE SUITABLE FOR PREVENTING PROLONGED CONTACT WITH THE SKIN.

EYE PROTECTION:

SAFETY GLASSES WITH SIDE SHIELDS OR SPLASH GOGGLES ARE RECOMMENDED.

OTHER PROTECTIVE CLOTHING:

NONE REQUIRED, HOWEVER, AVOID PROLONGED CONTACT WITH THE SKIN FROM SOILED CLOTHING.

VENTILATION:

LOCAL EXHAUST SHOULD BE SUFFICIENT. IF USED IN A MANNER THAT CREATES A MIST, MECHANICAL VENTILATION MAY BE NECESSARY.

THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS MATERIAL SAFETY DATA SHEET HAVE BEEN COMPILED FROM SOURCES BELIEVED TO BE RELIABLE AND TO REPRESENT CURRENT OPINION ON THE SUBJECT WHEN THE MSDS WAS PREPARED. NO WARRANTY, GUARANTY OR REPRESENTATION IS MADE AS TO THE CORRECTNESS OR SUFFICIENCY OF THE INFORMATION. THE USER OF THIS PRODUCT MUST DECIDE WHAT SAFETY MEASURES ARE NECESSARY TO SAFELY USE THIS PRODUCT, EITHER ALONE OR IN COMBINATION WITH OTHER PRODUCTS, AND DETERMINE IT'S ENVIRONMENTAL REGULATORY COMPLIANCE OBLIGATIONS UNDER ANY APPLICABLE FEDERAL, STATE AND LOCAL LAWS.

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MSDS

Common Name: 5RVU3 FLOOR FINISH REMOVER TOUGH GUY**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 5/6/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 5RVU3**Manufacturer Model Number(s):**

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[SECTION VIII - FIRST AID](#)
[SECTION IX - PREPARATION INFORMATION](#)

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION



PRODUCT NAME: 5RVU3 FLOOR FINISH REMOVER TOUGH GUY

PRODUCT CODE NUMBER: 309

PRODUCT USE: CLEANER

WHMIS CLASS: CLASS D - DIVISION 2B

DOT CLASSIFICATION: NOT REGULATED AS DANGEROUS GOODS.

TDG CLASSIFICATION: NOT REGULATED AS DANGEROUS GOODS.

MANUFACTURER/SUPPLIER:

W.W. GRAINGER, INC.

MW-H11

PALATINE, IL 60038-0000

800 323-0620

GENERAL ASSISTANCE: 630-543-7600

EMERGENCY TELEPHONE US: 866-836-8855

EMERGENCY TEL. CANADA: 952-852-4646.

LEGEND:

SEVERE: 4
SERIOUS: 3
MODERATE: 2
SLIGHT: 1
MINIMAL: 0

HMIS:

HEALTH /1
FLAMMABILITY 0
PHYSICAL HAZARD 0
PERSONAL PROTECTION B

NFPA:

1
0
0

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT(S)	CAS #	WT%
ALCOHOLS, C12-15, ETHOXYLATED	68131-39-5	5 - 10
1-OCTANESULFONIC ACID, SODIUM SALT	5324-84-5	1 - 5

INGREDIENT(S)	OSHA PELS	ACGIH-TLV	LC50	ORAL LD50
ALCOHOLS, C12-15, ETHOXYLATED	NOT ESTABLISHED	NOT ESTABLISHED	5 MG/L RAT	2000 MG/KG RAT
1-OCTANESULFONIC ACID, SODIUM SALT	NOT ESTABLISHED	NOT ESTABLISHED	NOT AVAILABLE	5000 MG/KG RAT

SECTION III - PHYSICAL DATA

BOILING POINT: 100 DEG. C

SPECIFIC GRAVITY: 1 - 1 @ 25 DEG. C (77 DEG. F) (H2O = 1)

FREEZING POINT: 0 DEG. C

COEFFICIENT OF WATER/OIL DISTRIBUTION: NOT AVAILABLE

VAPOR PRESSURE: SAME AS WATER

VAPOR DENSITY: SAME AS WATER

% VOLATILE: 85-90%

SOLUBILITY IN WATER: COMPLETE

EVAPORATION RATE: 1 (H2O = 1)

PHYSICAL STATE: LIQUID

PH: 6.8 - 7.2

APPEARANCE: ORANGE. LIQUID

VISCOSITY: SAME AS WATER

ODOR: CHARACTERISTIC.

ODOR THRESHOLD: LOW ODOR

SECTION IV - FIRE AND EXPLOSION DATA



FLAMMABILITY: NOT FLAMMABLE BY WHMIS/OSHA CRITERIA.

FLASH POINT (TAG CLOSED CUP): >100.00 DEG. C (>212 DEG. F)

LEL: NOT AVAILABLE

UEL: NOT AVAILABLE

HAZARDOUS COMBUSTION PRODUCTS:

MAY INCLUDE AND ARE NOT LIMITED TO: OXIDES OF CARBON.

AUTOIGNITION TEMPERATURE: NOT AVAILABLE

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT: NOT AVAILABLE

SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE

MEANS OF EXTINCTION: DRY CHEMICAL. FOAM. CARBON DIOXIDE. FOG.

SPECIAL FIRE HAZARDS:

FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS.

SECTION V - REACTIVITY DATA



CONDITIONS FOR CHEMICAL INSTABILITY:

STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS. ACIDS.

REACTIVITY, AND UNDER WHAT CONDITIONS: DO NOT MIX WITH OTHER CHEMICALS.

HAZARDOUS DECOMPOSITION PRODUCTS:

MAY INCLUDE AND ARE NOT LIMITED TO:

OXIDES OF CARBON WHEN HEATED TO DECOMPOSITION.

SECTION VI - TOXICOLOGICAL PROPERTIES



ROUTE OF ENTRY: EYE, SKIN CONTACT, INHALATION, INGESTION.

EFFECTS OF ACUTE EXPOSURE:

EYE: MAY CAUSE IRRITATION.

SKIN: MAY CAUSE IRRITATION.

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION.

INGESTION: MAY CAUSE STOMACH DISTRESS, NAUSEA OR VOMITING.

EFFECTS OF CHRONIC EXPOSURE:

SKIN:

PROLONGED OR REPEATED EXPOSURE CAN CAUSE DRYING, DEFATTING AND DERMATITIS.

IRRITANCY: HAZARDOUS BY WHMIS/OSHA CRITERIA.

RESPIRATORY TRACT SENSITIZATION: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA.

CARCINOGENICITY: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA.

TERATOGENICITY: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA.

MUTAGENICITY: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA.

REPRODUCTIVE EFFECTS: NON-HAZARDOUS BY WHMIS/OSHA CRITERIA.

SYNERGISTIC MATERIALS: NOT AVAILABLE

SECTION VII - PREVENTATIVE MEASURES



GLOVES: RUBBER GLOVES. CONFIRM WITH A REPUTABLE SUPPLIER FIRST.

EYE PROTECTION: SAFETY GLASSES

RESPIRATORY PROTECTION:

NOT NORMALLY REQUIRED IF GOOD VENTILATION IS MAINTAINED.

OTHER PROTECTIVE EQUIPMENT: AS REQUIRED BY EMPLOYER CODE.

ENGINEERING CONTROLS: GENERAL VENTILATION NORMALLY ADEQUATE.

LEAK AND SPILL PROCEDURE:

BEFORE ATTEMPTING CLEAN UP, REFER TO HAZARD DATA GIVEN ABOVE. SMALL SPILLS MAY BE ABSORBED WITH NON-REACTIVE ABSORBENT AND PLACED IN SUITABLE, COVERED, LABELLED CONTAINERS. PREVENT LARGE SPILLS FROM ENTERING SEWERS OR WATERWAYS. CONTACT EMERGENCY SERVICES AND SUPPLIER FOR ADVICE.

WASTE DISPOSAL:

REVIEW FEDERAL, STATE/PROVINCIAL, AND LOCAL GOVERNMENT REQUIREMENTS PRIOR TO DISPOSAL.

HANDLING REQUIREMENTS:

USE GOOD INDUSTRIAL HYGIENE PRACTICES IN HANDLING THIS MATERIAL. WASH HANDS BEFORE BREAKS AND IMMEDIATELY AFTER HANDLING THE PRODUCT.

STORAGE REQUIREMENTS:

KEEP OUT OF REACH OF CHILDREN. STORE IN A CLOSED CONTAINER AWAY FROM INCOMPATIBLE MATERIALS.

SECTION VIII - FIRST AID



EYE:

FLUSH WITH COOL WATER. REMOVE CONTACT LENSES, IF APPLICABLE, AND CONTINUE FLUSHING. OBTAIN MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN:

FLUSH WITH COOL WATER. WASH WITH SOAP AND WATER. OBTAIN MEDICAL ATTENTION IF IRRITATION PERSISTS.

INHALATION:

IF SYMPTOMS DEVELOP MOVE VICTIM TO FRESH AIR. IF SYMPTOMS PERSIST, OBTAIN

MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER, THEN DRINK ONE OR TWO GLASSES OF WATER. OBTAIN MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH IF VICTIM IS UNCONSCIOUS, OR IS CONVULSING.

SECTION IX - PREPARATION INFORMATION



EFFECTIVE DATE: 06-MAY-2011

EXPIRY DATE: 06-MAY-2014

ISSUE DATE: 06-MAY-2011

PREPARED BY: CLAIRE MANUFACTURING, ATTN" REGULATORY MANAGER 630-543-7600

INFORMATION CONTAINED HEREIN WAS OBTAINED FROM SOURCES CONSIDERED TECHNICALLY ACCURATE AND RELIABLE. WHILE EVERY EFFORT HAS BEEN MADE TO ENSURE FULL DISCLOSURE OF PRODUCT HAZARDS, IN SOME CASES DATA IS NOT AVAILABLE AND IS SO STATED. SINCE CONDITIONS OF ACTUAL PRODUCT USE ARE BEYOND CONTROL OF THE SUPPLIER, IT IS ASSUMED THAT USERS OF THIS MATERIAL HAVE BEEN FULLY TRAINED ACCORDING TO THE REQUIREMENTS OF ALL APPLICABLE LEGISLATION AND REGULATORY INSTRUMENTS. NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE AND SUPPLIER WILL NOT BE LIABLE FOR ANY LOSSES, INJURIES OR CONSEQUENTIAL DAMAGES WHICH MAY RESULT FROM THE USE OF OR RELIANCE ON ANY INFORMATION CONTAINED IN THIS DOCUMENT.

16455

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MSDS

Common Name: TOUGH GUY GRAFFITI REMOVER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 12/14/2009**MSDS Format:** No Format Specified**Grainger Item Number(s):** 6KHD7**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

PREPARED: 14 DECEMBER 2009

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION



PRODUCT(S): TOUGH GUY(TM) GRAFFITI REMOVER

FORMULA: A078

PART NUMBER(S): 6KHD7

COMPANY NAME & ADDRESS:

W.W. GRAINGER, INC.
100 GRAINGER PARKWAY
LAKE FOREST, IL 60045
1.847.565.5400

EMERGENCY NUMBERS:

IN CASE OF EMERGENCY, CALL: 1.800.228.5635
POISON CONTROL CENTER: 1-800-222-1222

SECTION 2 - HAZARDS IDENTIFICATION**WARNING.**

FLAMMABLE LIQUID AND VAPOR. MAY CAUSE EYE AND SKIN IRRITATION. CONTAINS PETROLEUM DISTILLATES - ASPIRATION HAZARD. MAY BE HARMFUL OR FATAL IF SWALLOWED. MAY CAUSE RESPIRATORY TRACT IRRITATION. MAY BE ABSORBED THROUGH INTACT SKIN. CONTENTS UNDER PRESSURE.

POTENTIAL HEALTH EFFECTS:

EYES: MAY CAUSE EYE IRRITATION.

SKIN: MAY CAUSE SKIN IRRITATION. MAY BE ABSORBED THROUGH INTACT SKIN.

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION.

INGESTION: ASPIRATION HAZARD. HARMFUL OR FATAL IF SWALLOWED.

SIGNS/SYMPTOMS OF EXPOSURE:

REDNESS, TEARING AND BURNING IN EYES. DRYNESS, REDNESS OR CRACKING OF SKIN. OVEREXPOSURE TO VAPORS MAY CAUSE EYE IRRITATION, COUGHING, CHEST PAIN, DROWSINESS, DIZZINESS, FATIGUE, NAUSEA, UNCONSCIOUSNESS, OR LOSS OF COORDINATION. SWALLOWING MAY IRRITATE MOUTH AND THROAT, CAUSE NAUSEA, VOMITING OR DIARRHEA, IRRITATE NOSE OR THROAT, INDUCE HIGH BLOOD SUGAR LEVELS OR INFLAME/DAMAGE LUNGS.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING BLOOD, BRAIN, EYE, LUNG, SKIN, LIVER OR KIDNEY DISORDERS MAY BE ADVERSELY AFFECTED. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS.

HMIS RATING:

HEALTH 1

FLAMMABILITY 3

REACTIVITY 0

PERSONAL PROTECTION B

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENT RANGE
WATER	7732-18-5	30 - 60
TOLUENE	108-88-3	15 - 40
ISOBUTANE	75-28-5	10 - 30
METHYL SOYATE	67784-80-9	5 - 10
PROPANE	74-98-6	3 - 7
2-BUTOXYETHANOL	111-76-2	3 - 7
ALKYL QUATERNARY AMMONIUM BENTONITE	71011-25-1	1 - 5
SORBITAN OLEATE	1338-43-8	1 - 5

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

SECTION 4 - FIRST AID MEASURES



EYES:

FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK MEDICAL ATTENTION IMMEDIATELY.

SKIN:

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATE CLOTHING AND SHOES. IF IRRITATION ARISES AND PERSISTS SEEK MEDICAL ATTENTION. LAUNDRER CLOTHING AND SHOES BEFORE REUSE.

INHALATION:

MOVE TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

INGESTION:

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

SECTION 5 - FIRE FIGHTING MEASURES



FLASHPOINT (PMCC): <35 DEG. F

EXTINGUISHING MEDIA:

CARBON DIOXIDE, DRY CHEMICAL OR FOAM. TREAT AS AN OIL FIRE.

SPECIAL FIRE FIGHTING PROCEDURES:

KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT RUNOFF FROM ENTERING SEWERS AND PUBLIC WATERWAYS. WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA) IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION:

OXIDES OF CARBON, NITROGEN OXIDES, HYDROGEN CHLORIDE, VARIOUS HYDROCARBONS, SMOKE, AND SOOT.

SECTION 6 - ACCIDENTAL RELEASE MEASURES



SMALL SPILL:

WIPE UP SMALL RELEASES WITH A DRY ABSORBENT CLOTH OR OTHER ABSORBENT MATERIAL.

LARGE SPILL:

VENTILATE AREA AND BLOCK TRAFFIC. ELIMINATE ALL IGNITION SOURCES. ABSORB LIQUID WITH VERMICULITE, ABSORBENT CLOTH, OR OTHER ABSORBENT MATERIAL. PREVENT MATERIAL FROM ENTERING SEWERS AND DRAINS. TRANSFER CONTAMINATED MATERIAL INTO SUITABLE CONTAINER FOR PROPER DISPOSAL. CLEAN ANY SLIPPERY RESIDUES WITH SUITABLE SOAP OR DETERGENT.

SECTION 7 - HANDLING AND STORAGE



HANDLING:

DO NOT SWALLOW. DO NOT GET INTO EYES. AVOID CONTACT WITH SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. DO NOT INHALE MIST OR VAPORS. DO NOT SMOKE

WHILE USING. DIRECT SPRAY AWAY FROM FACE. SPRAY CAN IN UPRIGHT POSITION ONLY. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES WHEN HANDLING THIS MATERIAL. USE FROM ORIGINAL CONTAINER ONLY AND FOLLOW LABEL DIRECTIONS CAREFULLY.

STORAGE:

KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME AND DIRECT SUNLIGHT. STORE IN A COOL (LESS THAN 120 DEG. F) WELL-VENTILATED AREA. KEEP OUT OF REACH OF CHILDREN. DO NOT PUNCTURE OR INCINERATE CONTAINER. REPLACE CAP WHEN NOT IN USE.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**ENGINEERING CONTROLS:**

VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

EXPOSURE LIMITS:

TOLUENE (CAS# 108-88-3):
200 PPM OSHA
50 PPM ACGIH (SKIN DESIGNATION)

ISOBUTANE (CAS# 75-28-5):
800 PPM OSHA
800 PPM ACGIH

2-BUTOXYETHANOL (CAS# 111-76-2):
50 PPM OSHA
20 PPM ACGIH (SKIN DESIGNATION)

PROPANE (CAS# 74-98-6):
1000 PPM OSHA; ASPHYXIANC ACGIH

EYE PROTECTION:

YES, WEAR APPROVED SAFETY GLASSES OR GOGGLES IF DIRECT CONTACT IS POSSIBLE.

SKIN PROTECTION:

YES, WEAR APPROVED SAFETY GOGGLES IF DIRECT CONTACT IS POSSIBLE.

RESPIRATORY PROTECTION:

NOT USUALLY NECESSARY. IF VAPORS ARE PRESENT OR IRRITATION IS EXPERIENCED, USE NIOSH/MSHA APPROVED RESPIRATOR.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: LIGHT TAN LIQUID WITH TOLUENE SCENT IN AN AEROSOL CAN.

pH: 6.8

BOILING POINT: 212 DEG. F

SPECIFIC GRAVITY: 0.943

VAPOR DENSITY: >1

FLAME PROJECTION: >18" (NO FLASHBACK)

SOLUBILITY IN WATER: MISCIBLE

PRESSURE: 125 PSIG

VOLATILE ORGANIC COMPOUNDS (VOCS): 49.6% BY WEIGHT

SECTION 10 - STABILITY AND REACTIVITY



HAZARDOUS POLYMERIZATION:

THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

OXIDES OF CARBON, NITROGEN OXIDES, HYDROGEN CHLORIDE, VARIOUS HYDROCARBONS, SMOKE, AND SOOT.

CHEMICAL STABILITY: STABLE

INCOMPATIBLE MATERIALS:

STRONG ACIDS, STRONG OXIDIZING AGENTS AND STRONG ALKALIES.

SECTION 11 - TOXICOLOGICAL INFORMATION



METHYL SOYATE, CAS# 67784-80-9:

DERMAL LD50: 2000 - 20000 MG/KG RABBIT

ORAL LD50: 5000 - 15000 MG/KG RAT

SECTION 12 - ECOLOGICAL INFORMATION



NO DATA.

SECTION 13 - DISPOSAL CONSIDERATIONS



DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

WASTE INFORMATION:

IF THIS PRODUCT BECOMES A WASTE, IT WOULD BE A HAZARDOUS WASTE (D001) AS DEFINED BY RCRA (40 CFR 261).

HOWEVER THE WASTE SHOULD BE PROPERLY EVALUATED IN CASE OF MODIFICATION PRIOR TO DISPOSAL.

SECTION 14 - TRANSPORT INFORMATION



THE FOLLOWING TRANSPORTATION INFORMATION IS BASED ON DEPARTMENT OF TRANSPORTATION REGULATIONS FOUND IN 49 CFR. IF SHIPPING THIS PRODUCT BY AIR PLEASE REFER TO INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA) DANGEROUS GOODS REGULATIONS. IF SHIPPING THIS PRODUCT BY OCEAN PLEASE REFER TO INTERNATIONAL MARITIME DANGEROUS GOODS REGULATIONS (IMDG). TO FIND HOW TO SHIP THIS PRODUCT PLEASE REFER TO THE UN# LISTED BELOW.

	UN #	PROPER SHIPPING DESCRIPTION	HAZARD CLASS	PACKING GROUP
DOT INFORMATION	NONE	CONSUMER COMMODITY	ORM-D	NONE

MARINE POLLUTANTS: NONE

SECTION 15 - REGULATORY INFORMATION



US FEDERAL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT (TSCA):
ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR EXEMPT FROM LISTING.

CERCLA RQ:
TOLUENE: 1000 LBS.
2-BUTANONE: 5000 LBS.

SARA 313 COMPONENTS:
TOLUENE (CAS 108-88-3): 25.61%
2-BUTOXYETHANOL (CAS 111-76-2): 4.00%

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65:
THIS PRODUCT CONTAINS A CHEMICAL (TOLUENE) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR BIRTH DEFECTS AND OTHER REPRODUCTIVE HARM.

SECTION 16 - OTHER INFORMATION



WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

[Close this window](#)

MSDS

Common Name: GLANCE NA GLASS & MULTI-PURPOSE CLEANER NON-AMMONIATED**Manufacturer:** DIVERSEY**MSDS Revision Date:** 4/1/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 10A335, 10C397, 10C410, 6EFX9**Manufacturer Model Number(s):**

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DIVERSEY (TM)

MATERIAL SAFETY DATA SHEET

GLANCE NA GLASS & MULTI-PURPOSE CLEANER NON-AMMONIATED

	HMIS	NFPA
HEALTH	1	1
FIRE HAZARD	0	0
REACTIVITY	0	0

PERSONAL PROTECTIVE EQUIPMENT: NONE

VERSION NUMBER: 6

PREPARATION DATE: 2011-04-01

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: GLANCE NA GLASS & MULTI-PURPOSE CLEANER NON-AMMONIATED

MSDS #: MS0200011

PRODUCT CODE: 3361936, 3172641, 5019510, 5271310, 5285375

RECOMMENDED USE:

CLEANING PRODUCT. THIS PRODUCT IS INTENDED TO BE DILUTED PRIOR TO USE.

MANUFACTURER, IMPORTER, SUPPLIER:

US HEADQUARTERS:

DIVERSEY, INC.
8310 16TH ST.
STURTEVANT, WISCONSIN 53177-1964

PHONE: 1-888-352-2249

CANADIAN HEADQUARTERS:

DIVERSEY, INC. - CANADA, INC.
2401 BRISTOL CIRCLE
OAKVILLE, ONTARIO L6H 6P1

PHONE: 1-800-668-3131

MSDS INTERNET ADDRESS: WWW.DIVERSEY.COM

EMERGENCY TELEPHONE NUMBER:

1-800-851-7145 (U.S.)
1-651-917-6133 (INT'L)

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

CAUTION. MAY BE MILDLY IRRITATING TO EYES. MAY BE MILDLY IRRITATING TO SKIN.

PRINCIPAL ROUTES OF EXPOSURE: EYE CONTACT. SKIN CONTACT. INHALATION.

EYE CONTACT: MAY BE MILDLY IRRITATING TO EYES.

SKIN CONTACT: MAY BE MILDLY IRRITATING TO SKIN.

INHALATION: NONE KNOWN.

INGESTION: NONE KNOWN.

3. COMPOSITION/INFORMATION ON INGREDIENTS



INGREDIENT(S)	CAS #	WEIGHT %	LD50	LD50	LC50
			ORAL - RAT (MG/KG)	DERMAL - RABBIT	INHALATION - RAT
SODIUM LAURYL SULFATE	151-21-3	1 - 5%	1288	=580 MG/KG	>3900 MG/M3 (1 H)
ETHYL ALCOHOL	64-17-5	0.1 - 1.5%	7060	NOT AVAILABLE	=124.7 MG/L (4 H)

4. FIRST AID MEASURES



EYE CONTACT:

FLUSH IMMEDIATELY WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION OCCURS.

SKIN CONTACT:

FLUSH IMMEDIATELY WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION OCCURS.

INHALATION: NO SPECIFIC FIRST AID MEASURES ARE REQUIRED.

INGESTION: NO SPECIFIC FIRST AID MEASURES ARE REQUIRED.

AGGRAVATED MEDICAL CONDITIONS: NONE KNOWN

5. FIRE-FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA:**

THE PRODUCT IS NOT FLAMMABLE. EXTINGUISH FIRE USING AGENT SUITABLE FOR SURROUNDING FIRE.

SPECIFIC HAZARDS: NONE KNOWN.

UNUSUAL HAZARDS: NONE KNOWN.

SPECIFIC METHODS: NO SPECIAL METHODS REQUIRED.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:

NO INFORMATION AVAILABLE

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS: NOT RELEVANT FOR THE PRODUCT ITSELF.

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

CLEAN-UP METHODS - LARGE SPILLAGE. USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION. ABSORB SPILL WITH INERT MATERIAL (E.G. DRY SAND OR EARTH), THEN PLACE IN A CHEMICAL WASTE CONTAINER. KEEP IN SUITABLE AND CLOSED CONTAINERS FOR DISPOSAL.

7. HANDLING AND STORAGE

**HANDLING:**

AVOID CONTACT WITH SKIN AND EYES. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

STORAGE:

PROTECT FROM FREEZING. KEEP TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE. KEEP OUT OF THE REACH OF CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



ENGINEERING MEASURES TO REDUCE EXPOSURE:

NO SPECIAL VENTILATION REQUIREMENTS GENERAL ROOM VENTILATION IS ADEQUATE

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.

HAND PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

SKIN AND BODY PROTECTION:

NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.

RESPIRATORY PROTECTION:

NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.

HYGIENE MEASURES:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.

INGREDIENT(S)	CAS #	ACGIH	OSHA	MEXICO
ETHYL ALCOHOL	64-17-5	1000 PPM (STEL)	1000 PPM (TWA) 1900 MG/M3 (TWA)	1000 PPM (TWA) 1900 MG/M3 (TWA)

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID

APPEARANCE: LIQUID AQUEOUS SOLUTION

SPECIFIC GRAVITY: 1.00

VAPOR DENSITY: NO INFORMATION AVAILABLE

BOILING POINT/RANGE: NOT DETERMINED

DECOMPOSITION TEMPERATURE: NOT DETERMINED

SOLUBILITY: COMPLETELY SOLUBLE

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

PARTITION COEFFICIENT (n-OCTANOL/WATER): NO INFORMATION AVAILABLE

ELEMENTAL PHOSPHORUS: 0.0% BY WT.

pH: 7.0

BULK DENSITY: NO INFORMATION AVAILABLE

EVAPORATION RATE: NO INFORMATION AVAILABLE

COLOR: CLEAR BLUE

ODOR: NO ODOR/ODORLESS

MELTING POINT/RANGE: NOT DETERMINED

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

DENSITY:
8.34 LBS/GAL
1 KG/L

FLASH POINT:
>200 DEG. F
>93.4 DEG. C

VISCOSITY: NO INFORMATION AVAILABLE

VOC: 0.32% *

DILUTION pH: 7.0 @ 1:40

EXPLOSION LIMITS:
UPPER: NOT DETERMINED
LOWER: NOT DETERMINED

* - TITLE 17, CALIFORNIA CODE OF REGULATIONS, DIVISION 3, CHAPTER 1,
SUBCHAPTER 8.5, ARTICLE 2, CONSUMER PRODUCTS, SECTIONS 94508

10. STABILITY AND REACTIVITY



STABILITY: THE PRODUCT IS STABLE

POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: NONE REASONABLY FORESEEABLE.

MATERIALS TO AVOID: NONE KNOWN.

CONDITIONS TO AVOID: DO NOT FREEZE.

11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:
ORAL LD50 ESTIMATED TO BE GREATER THAN 5000 MG/KG.
DERMAL LD50 ESTIMATED TO BE >2000 MG/KG

COMPONENT INFORMATION: SEE SECTION 3

CHRONIC TOXICITY: NONE KNOWN

SPECIFIC EFFECTS:
CARCINOGENIC EFFECTS: NONE KNOWN
MUTAGENIC EFFECTS: NONE KNOWN
REPRODUCTIVE TOXICITY: NONE KNOWN
TARGET ORGAN EFFECTS: NONE KNOWN

INGREDIENT(S)	CAS #	NTP	IARC	OSHA
ETHYL ALCOHOL	64-17-5	X	1	X

12. ECOLOGICAL INFORMATION



ENVIRONMENTAL INFORMATION: NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS



WASTE FROM RESIDUES / UNUSED PRODUCTS:
DISPOSE OF IN COMPLIANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL
LAWS AND REGULATIONS.

14. TRANSPORT INFORMATION



DOT/TDG/IMDG:
PLEASE REFER TO THE DIVERSEY HAZMAT LIBRARY,
[HTTP://NAEXTRANET.DIVERSEY.COM/DOT/](http://NAEXTRANET.DIVERSEY.COM/DOT/), FOR UP TO DATE SHIPPING INFORMATION.

DOT BILL OF LADING DESCRIPTION:
CLEANING, WASHING, BUFFING, OR POLISHING COMPOUNDS LIQUID

IMDG BILL OF LADING DESCRIPTION: SAME AS DOT ABOVE.

15. REGULATORY INFORMATION



INTERNATIONAL INVENTORIES AT CAS# LEVEL:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE FOLLOWING INVENTORIES:
U.S.A. (TSCA), CANADA (DSL/NDL).

U.S. REGULATIONS:

CALIFORNIA PROPOSITION 65:
THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER
CALIFORNIA'S PROPOSITION 65

RIGHT TO KNOW (RTK):

INGREDIENT(S)	CAS #	MARTK	NJRTK	PARTK	RIRTK
SODIUM LAURYL SULFATE	151-21-3				
ETHYL ALCOHOL	64-17-5	X	X	X	X
ALCOHOL ETHOXYLATES	68439-46-3				
WATER	7732-18-5				
SODIUM LAURYL ETHER SULFATE	9004-82-4				

CERCLA/SARA:
CAA HAP/CAA ODS/CWA PRIORITY POLLUTANTS: NONE

SARA 311/312 HAZARD CATEGORIES:
IMMEDIATE
DELAYED
FIRE
REACTIVITY
SUDDEN RELEASE OF PRESSURE

CANADA:
WHMIS HAZARD CLASS: NON-CONTROLLED

INGREDIENT(S)	CAS #	NPRI
ETHYL ALCOHOL	64-17-5	X

16. OTHER INFORMATION



REASON FOR REVISION: NOT APPLICABLE

PREPARED BY: NAPRAC

ADDITIONAL ADVICE: DOES NOT CONTAIN AN ADDED FRAGRANCE.

NOTICE TO READER:

THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS RESPONSIBLE TO EVALUATE ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS.

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MSDS

Common Name: STRIDE CITRUS HC NEUTRAL CLEANER**Manufacturer:** DIVERSEY**MSDS Revision Date:** 10/6/2010**MSDS Format:** No Format Specified**Grainger Item Number(s):** 10C411, 6EFY1**Manufacturer Model Number(s):**

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DIVERSEY (TM)

MATERIAL SAFETY DATA SHEET

STRIDE CITRUS HC NEUTRAL CLEANER

	HMIS	NFPA
HEALTH	2	2
FIRE HAZARD	0	0
REACTIVITY	0	0

PERSONAL PROTECTIVE EQUIPMENT:
CHEMICAL GOGGLES
GLOVES

VERSION NUMBER: 3

PREPARATION DATE: 2010-10-06

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: STRIDE CITRUS HC NEUTRAL CLEANER

MSDS #: MS0300438

PRODUCT CODE: 04716, 5122613

RECOMMENDED USE:

NEUTRAL CLEANER. THIS PRODUCT IS INTENDED TO BE DILUTED PRIOR TO USE.

MANUFACTURER, IMPORTER, SUPPLIER:

US HEADQUARTERS:

DIVERSEY, INC.

8310 16TH ST.

STURTEVANT, WISCONSIN 53177-1964

PHONE: 1-888-352-2249

CANADIAN HEADQUARTERS:

DIVERSEY, INC. - CANADA, INC.

2401 BRISTOL CIRCLE

OAKVILLE, ONTARIO L6H 6P1

PHONE: 1-800-668-3131

MSDS INTERNET ADDRESS: WWW.DIVERSEY.COM

EMERGENCY TELEPHONE NUMBER:

1-800-851-7145 (U.S.)

1-651-917-6133 (INT'L)

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

WARNING. CAUSES EYE IRRITATION. MAY BE HARMFUL IF SWALLOWED. MAY BE MILDLY IRRITATING TO SKIN.

PRINCIPAL ROUTES OF EXPOSURE: EYE CONTACT. SKIN CONTACT. INHALATION.

EYE CONTACT: SEVERE EYE IRRITATION.

SKIN CONTACT: MAY BE MILDLY IRRITATING TO SKIN.

INHALATION: MAY BE IRRITATING TO NOSE, THROAT, AND RESPIRATORY TRACT.

INGESTION: MAY CAUSE IRRITATION TO MOUTH, THROAT AND STOMACH.

3. COMPOSITION/INFORMATION ON INGREDIENTS



INGREDIENT(S)	CAS #	WEIGHT %	LD50	LD50	LC50
			ORAL - RAT (MG/KG)	DERMAL - RABBIT	INHALATION - RAT
ALCOHOL	68439-46-3	20 - 30%	1378	>2 G/KG	NOT AVAILABLE
ETHOXYLATES					

4. FIRST AID MEASURES



EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES, KEEPING EYELIDS OPEN. GET MEDICAL ATTENTION.

SKIN CONTACT:

FLUSH IMMEDIATELY WITH PLENTY OF WATER. IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION.

INHALATION:

IF BREATHING IS AFFECTED, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION.

INGESTION:

GIVE A CUPFUL OF WATER OR MILK . THEN IMMEDIATELY CONTACT A PHYSICIAN OR POISON CENTER. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

AGGRAVATED MEDICAL CONDITIONS: NONE KNOWN

5. FIRE-FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA:**

THE PRODUCT IS NOT FLAMMABLE. EXTINGUISH FIRE USING AGENT SUITABLE FOR SURROUNDING FIRE.

SPECIFIC HAZARDS: NOT APPLICABLE

UNUSUAL HAZARDS: NONE KNOWN

SPECIFIC METHODS: NO SPECIAL METHODS REQUIRED

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:

NO INFORMATION AVAILABLE

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS: USE PERSONAL PROTECTIVE EQUIPMENT

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

CLEAN-UP METHODS - LARGE SPILLAGE. ABSORB SPILL WITH INERT MATERIAL (E.G. DRY SAND OR EARTH), THEN PLACE IN A CHEMICAL WASTE CONTAINER. USE A WATER RINSE FOR FINAL CLEAN-UP.

7. HANDLING AND STORAGE

**HANDLING:**

AVOID CONTACT WITH SKIN, EYES AND CLOTHING. DO NOT TASTE OR SWALLOW. REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE. WASH THOROUGHLY AFTER HANDLING. PRODUCT RESIDUE MAY REMAIN ON/IN EMPTY CONTAINERS. ALL PRECAUTIONS FOR HANDLING THE PRODUCT MUST BE USED IN HANDLING THE EMPTY CONTAINER AND RESIDUE. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

STORAGE:

PROTECT FROM FREEZING. KEEP TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE. KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**ENGINEERING MEASURES TO REDUCE EXPOSURE:**

NO SPECIAL VENTILATION REQUIREMENTS GENERAL ROOM VENTILATION IS ADEQUATE

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: CHEMICAL-SPLASH GOGGLES.

HAND PROTECTION: CHEMICAL-RESISTANT GLOVES

SKIN AND BODY PROTECTION: NO SPECIAL PROTECTIVE CLOTHING IS REQUIRED.

RESPIRATORY PROTECTION: NO SPECIAL PROTECTIVE CLOTHING IS REQUIRED.

HYGIENE MEASURES:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID

BULK DENSITY: NO INFORMATION AVAILABLE

APPEARANCE: AQUEOUS SOLUTION

EVAPORATION RATE NO INFORMATION AVAILABLE

SPECIFIC GRAVITY: 1.007

COLOR: CLEAR ORANGE

VAPOR DENSITY: NO INFORMATION AVAILABLE

ODOR: CITRUS

BOILING POINT/RANGE: NOT DETERMINED

MELTING POINT/RANGE: NOT DETERMINED

DECOMPOSITION TEMPERATURE: NOT DETERMINED

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

SOLUBILITY: COMPLETELY SOLUBLE

DENSITY:

8.42 LBS/GAL

1.01 KG/L

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

FLASH POINT:

>200 DEG. F

>93.4 DEG. C

PARTITION COEFFICIENT (n-OCTANOL/WATER): NO INFORMATION AVAILABLE

VISCOSITY: NO INFORMATION AVAILABLE

ELEMENTAL PHOSPHORUS: 0.00% BY WT.

VOC: 0%*

pH: 6.5

DILUTION pH: 7.4 @ 1:375

EXPLOSION LIMITS:

UPPER: NOT DETERMINED

LOWER: NOT DETERMINED

* - TITLE 17, CALIFORNIA CODE OF REGULATIONS, DIVISION 3, CHAPTER 1, SUBCHAPTER 8.5, ARTICLE 2, CONSUMER PRODUCTS, SECTIONS 94508

10. STABILITY AND REACTIVITY



STABILITY: THE PRODUCT IS STABLE

POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: NONE REASONABLY FORESEEABLE.

MATERIALS TO AVOID: OXIDISING AGENTS.

11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

ORAL LD50: ESTIMATED TO BE BETWEEN 2000 - 5000 MG/KG.

DERMAL LD50: ESTIMATED TO BE >2000 MG/KG.

COMPONENT INFORMATION: SEE SECTION 3

CHRONIC TOXICITY: NONE KNOWN

SPECIFIC EFFECTS:

CARCINOGENIC EFFECTS: NONE KNOWN

MUTAGENIC EFFECTS: NONE KNOWN

REPRODUCTIVE TOXICITY: NONE KNOWN

TARGET ORGAN EFFECTS: NONE KNOWN

12. ECOLOGICAL INFORMATION



ENVIRONMENTAL INFORMATION: NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS



WASTE FROM RESIDUES / UNUSED PRODUCTS:

DISPOSE OF ACCORDING TO ALL FEDERAL, STATE AND LOCAL APPLICABLE REGULATIONS

14. TRANSPORT INFORMATION



DOT/TDG:

PLEASE REFER TO THE BILL OF LADING/RECEIVING DOCUMENTS FOR UP TO DATE SHIPPING INFORMATION

15. REGULATORY INFORMATION



INTERNATIONAL INVENTORIES AT CAS# LEVEL:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE FOLLOWING INVENTORIES:
U.S.A. (TSCA), CANADA (DSL/NDL).

U.S. REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER CALIFORNIA'S PROPOSITION 65

RIGHT TO KNOW (RTK):

INGREDIENT(S)	CAS #	MARTK	NJRTK	PARTK	RIRTK
SODIUM XYLENE SULFONATE	1300-72-7				
COCONUT FATTY ACID	61788-47-4				
ALCOHOL ETHOXYLATES	68439-46-3				
WATER	7732-18-5				

CERCLA/ SARA:

SARA 311/312 HAZARD CATEGORIES:

IMMEDIATE	(X)
DELAYED	()
FIRE	()
REACTIVITY	()
SUDDEN RELEASE OF PRESSURE	()

CANADA:

WHMIS HAZARD CLASS: D2B TOXIC MATERIALS

16. OTHER INFORMATION



REASON FOR REVISION: NOT APPLICABLE

PREPARED BY: NAPRAC

ADDITIONAL ADVICE:

CONTAINS AN ADDED FRAGRANCE, SEE "ODOR" HEADING IN SECTION 9 FOR

SPECIFIC DESCRIPTION. WHEN USED THROUGH DISPENSING/AUTODOSE EQUIPMENT, THIS PRODUCT MEETS GREEN SEAL'S REQUIREMENTS FOR ACUTE TOXICITY AT THE AS-USED DILUTION.

NOTICE TO READER:

THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS RESPONSIBLE TO EVALUATE ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS.

[Close this window](#)

MSDS

Common Name: CREW NA SC NON-ACID BOWL & BATHROOM DISINFECTANT CLEANER (US)**Manufacturer:** JOHNSON DIVERSEY**MSDS Revision Date:** 10/18/2010**MSDS Format:** No Format Specified**Grainger Item Number(s):** 10C415**Manufacturer Model Number(s):**

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DIVERSEY (TM)

MATERIAL SAFETY DATA SHEET

CREW NA SC NON-ACID BOWL & BATHROOM DISINFECTANT CLEANER (US)

	HMIS	NFPA
HEALTH	3	3
FIRE HAZARD	0	0
REACTIVITY	0	0

PERSONAL PROTECTIVE EQUIPMENT:

CHEMICAL GOGGLES

GLOVES

BOOTS

VERSION NUMBER: 5

PREPARATION DATE: 2010-10-18

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME:
CREW NA SC NON-ACID BOWL & BATHROOM DISINFECTANT CLEANER (US)

MSDS #: 126616001

PRODUCT CODE: 4271650, 5019237, 5314869, 5546264

RECOMMENDED USE:
DISINFECTANT. THIS PRODUCT IS INTENDED TO BE DILUTED PRIOR TO USE.

MANUFACTURER, IMPORTER, SUPPLIER:

US HEADQUARTERS:
JOHNSON DIVERSEY, INC.
8310 16TH ST.
STURTEVANT, WISCONSIN 53177-1964

PHONE: 1-888-352-2249

MSDS INTERNET ADDRESS: WWW.JOHNSON DIVERSEY.COM

EMERGENCY TELEPHONE NUMBER:
1-800-851-7145 (U.S.)
1-651-917-6133 (INT'L)

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:
DANGER. CORROSIVE. CAUSES SKIN AND EYE BURNS. HARMFUL OR FATAL IF SWALLOWED.

PRINCIPAL ROUTES OF EXPOSURE:
EYE CONTACT. SKIN CONTACT. INHALATION. INGESTION.

EYE CONTACT: CORROSIVE. CAUSES PERMANENT EYE DAMAGE, INCLUDING BLINDNESS.

SKIN CONTACT: CORROSIVE. CAUSES PERMANENT DAMAGE.

INHALATION:
MAY CAUSE IRRITATION AND CORROSIVE EFFECTS TO NOSE, THROAT AND RESPIRATORY TRACT.

INGESTION: CORROSIVE. CAUSES BURNS TO MOUTH, THROAT AND STOMACH.

3. COMPOSITION/INFORMATION ON INGREDIENTS



INGREDIENT(S)	CAS #	WEIGHT %	LD50 ORAL - RAT (MG/KG)	LD50 DERMAL - RABBIT	LC50 INHALATION RAT
DIOCTYL DIMETHYL AMMONIUM CHLORIDE	5538-94-3	0.456	11300	NOT AVAILABLE	NOT AVAILABLE
N-ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE	68424-85-1	1.52	426	NOT AVAILABLE	NOT AVAILABLE
DI-n-ALKYL	68424-95-3	1.14	238	NOT	NOT

DIMETHYL AMMONIUM CHLORIDE				AVAILABLE	AVAILABLE
DIDECYL DIMETHYL AMMONIUM CHLORIDE	7173-51-5	0.684	84	NOT AVAILABLE	NOT AVAILABLE
ETHYL ALCOHOL	64-17-5	0.1 - 1.5%	7060	NOT AVAILABLE	=124.7 MG/L (4 H)

4. FIRST AID MEASURES



EYE CONTACT:

HOLD EYE OPEN AND RINSE SLOWLY AND GENTLY WITH WATER FOR 15-20 MINUTES. REMOVE CONTACT LENSES, IF PRESENT, AFTER THE FIRST 5 MINUTES, THEN CONTINUE RINSING EYES. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15-20 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION:

IF BREATHING IS AFFECTED, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

CALL MEDICAL ATTENDANT, DOCTOR, OR POISON CONTROL CENTER IMMEDIATELY. HAVE PERSON SIP A GLASS OF WATER IF ABLE TO SWALLOW. DO NOT INDUCE VOMITING UNLESS TOLD TO DO SO BY A POISON CONTROL CENTER OR DOCTOR. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

NOTES TO PHYSICIAN:

PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE THE USE OF GASTRIC LAVAGE.

AGGRAVATED MEDICAL CONDITIONS:

INDIVIDUALS WITH CHRONIC RESPIRATORY DISORDERS SUCH AS ASTHMA, CHRONIC BRONCHITIS, EMPHYSEMA, ETC. MAY BE MORE SUSCEPTIBLE TO IRRITATING EFFECTS

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:

THE PRODUCT IS NOT FLAMMABLE. EXTINGUISH FIRE USING AGENT SUITABLE FOR SURROUNDING FIRE.

SPECIFIC HAZARDS: NOT APPLICABLE

UNUSUAL HAZARDS: CORROSIVE MATERIAL (SEE SECTIONS 8 AND 10).

SPECIFIC METHODS: NO SPECIAL METHODS REQUIRED

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:

NO INFORMATION AVAILABLE

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS: USE PERSONAL PROTECTIVE EQUIPMENT

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

CLEAN-UP METHODS - LARGE SPILLAGE. PREVENT PRODUCT FROM ENTERING DRAINS. WATER RUNOFF CAN CAUSE ENVIRONMENTAL DAMAGE. ABSORB SPILL WITH INERT MATERIAL (E.G. DRY SAND OR EARTH), THEN PLACE IN A CHEMICAL WASTE CONTAINER. USE A WATER RINSE FOR FINAL CLEAN-UP.

7. HANDLING AND STORAGE



HANDLING:

AVOID CONTACT WITH SKIN, EYES AND CLOTHING. REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE. HARMFUL IF SWALLOWED. DO NOT TASTE OR SWALLOW. AVOID BREATHING VAPORS OR MISTS. USE ONLY WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. PRODUCT RESIDUE MAY REMAIN ON/IN EMPTY CONTAINERS. ALL PRECAUTIONS FOR HANDLING THE PRODUCT MUST BE USED IN HANDLING THE EMPTY CONTAINER AND RESIDUE. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

STORAGE:

PROTECT FROM FREEZING. KEEP TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE. KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



ENGINEERING MEASURES TO REDUCE EXPOSURE:

GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS. RESPIRATORY PROTECTION IS NOT REQUIRED IF GOOD VENTILATION IS MAINTAINED.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: CHEMICAL-SPLASH GOGGLES.

HAND PROTECTION: CHEMICAL-RESISTANT GLOVES

SKIN AND BODY PROTECTION:

PROTECTIVE FOOTWEAR. IF MAJOR EXPOSURE IS POSSIBLE, WEAR SUITABLE PROTECTIVE CLOTHING AND FOOTWEAR.

RESPIRATORY PROTECTION:

IN CASE OF INSUFFICIENT VENTILATION WEAR SUITABLE RESPIRATORY EQUIPMENT. A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

HYGIENE MEASURES:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE

INGREDIENT(S)	CAS #	ACGIH	OSHA	MEXICO
ETHYL ALCOHOL	64-17-5	1000 PPM (STEL)	1000 PPM (TWA)	1000 PPM (TWA)
			1900 PPM (TWA)	1900 PPM (TWA)

9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID

APPEARANCE: LIQUID

SPECIFIC GRAVITY: 1.02

VAPOR DENSITY: NO INFORMATION AVAILABLE

BOILING POINT/RANGE: NOT DETERMINED

DECOMPOSITION TEMPERATURE: NOT DETERMINED

SOLUBILITY: COMPLETELY SOLUBLE

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

PARTITION COEFFICIENT (n-OCTANOL/WATER): NO INFORMATION AVAILABLE

ELEMENTAL PHOSPHORUS: 0% BY WT.

pH: 12.6

BULK DENSITY: NO INFORMATION AVAILABLE

EVAPORATION RATE: NO INFORMATION AVAILABLE

COLOR: CLEAR BLUE

ODOR: FLORAL

MELTING POINT/RANGE: NOT DETERMINED

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

DENSITY:

8.51 LBS/GAL

1.02 KG/L

FLASH POINT:

>200 DEG. F

>93.4 DEG. C

VISCOSITY: NO INFORMATION AVAILABLE

VOC: 0.8%*

DILUTION pH: 10 @ 1:128

EXPLOSION LIMITS:

UPPER: NOT DETERMINED

LOWER: NOT DETERMINED

* - TITLE 17, CALIFORNIA CODE OF REGULATIONS, DIVISION 3, CHAPTER 1, SUBCHAPTER 8.5, ARTICLE 2, CONSUMER PRODUCTS, SECTIONS 94508

10. STABILITY AND REACTIVITY



STABILITY: THE PRODUCT IS STABLE

POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE REASONABLY FORESEEABLE.

MATERIALS TO AVOID: NONE KNOWN.

CONDITIONS TO AVOID: DO NOT FREEZE.

11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

ORAL LD50 ESTIMATED TO BE BETWEEN 1000 - 2000 MG/KG.

DERMAL LD50 ESTIMATED TO BE >2000 MG/KG.

COMPONENT INFORMATION: SEE SECTION 3

CHRONIC TOXICITY: NONE KNOWN

SPECIFIC EFFECTS:

CARCINOGENIC EFFECTS: NONE KNOWN

MUTAGENIC EFFECTS: NONE KNOWN

REPRODUCTIVE TOXICITY: NONE KNOWN

TARGET ORGAN EFFECTS: NONE KNOWN

INGREDIENT(S)	CAS #	NTP	IARC	OSHA
ETHYL ALCOHOL	64-17-5	X	1	X

12. ECOLOGICAL INFORMATION



ENVIRONMENTAL INFORMATION: NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS



DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL

PESTICIDE STORAGE:

STORE IN ORIGINAL CONTAINER IN AREAS INACCESSIBLE TO CHILDREN. OPEN DUMPING IS PROHIBITED. DO NOT REUSE EMPTY CONTAINER

PESTICIDE DISPOSAL:

PESTICIDE WASTES ARE ACUTELY HAZARDOUS. IMPROPER DISPOSAL OF EXCESS PESTICIDE, SPRAY MIXTURE, OR RINSATE IS A VIOLATION OF FEDERAL LAW

CONTAINER DISPOSAL:

SECURELY WRAP ORIGINAL CONTAINER IN SEVERAL LAYERS OF NEWSPAPER AND DISCARD IN TRASH OR RECYCLE. PESTICIDE PRODUCT DISPOSAL REQUIREMENTS VARY BY PACKAGE SIZE AND TYPE. PESTICIDES INCLUDE DISINFECTANTS AND SANITIZERS. SEE PRODUCT LABEL FOR COMPLETE DISPOSAL INSTRUCTIONS. ALWAYS DISPOSE OF ACCORDING TO ALL FEDERAL, STATE AND LOCAL APPLICABLE REGULATIONS.

RCRA HAZARD CLASS: D002

14. TRANSPORT INFORMATION



DOT/TDG:

PLEASE REFER TO THE BILL OF LADING/RECEIVING DOCUMENTS FOR UP TO DATE SHIPPING INFORMATION

15. REGULATORY INFORMATION



INTERNATIONAL INVENTORIES AT CAS# LEVEL:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE FOLLOWING INVENTORIES:
U.S.A. (TSCA)

U.S. REGULATIONS:

EPA REG. NO.: 6836-73-70627

CALIFORNIA PROPOSITION 65:
THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER CALIFORNIA'S PROPOSITION 65

CERCLA/ SARA: NONE

SARA 311/312 HAZARD CATEGORIES:

IMMEDIATE	(X)
DELAYED	()
FIRE	()
REACTIVITY	()
SUDDEN RELEASE OF PRESSURE	()

16. OTHER INFORMATION



REASON FOR REVISION: NOT APPLICABLE

PREPARED BY: NAPRAC

ADDITIONAL ADVICE: NONE

NOTICE TO READER:

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MSDS

Common Name: STAINLESS STEEL POLISH**Manufacturer:** NYCO PRODUCTS**MSDS Revision Date:** 4/15/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 11U475**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

MSDS NO.: N887

NYCO PRODUCTS CO.
5332 DANSHER ROAD
COUNTRYSIDE, ILLINOIS 60525

EMERGENCY PHONES:
708-579-8100 (NYCO)
800-424-9300 (CHEMTREC)

REVISION DATE: 4/15/2011

SUPERSEDES DATE: 1/28/2008

PLEASE NOTE:

THIS MSDS IS BEING PROVIDED TO YOUR COMPANY FOR THE PURPOSE OF PROVIDING CURRENT HEALTH AND SAFETY INFORMATION TO YOUR MANAGEMENT AND FOR YOUR EMPLOYEES WHO WORK WITH THIS MATERIAL. PLEASE READ THE INFORMATION ON THESE SHEETS, AND THEN PROVIDE THIS INFORMATION TO THOSE PEOPLE AT YOUR COMPANY WHOSE RESPONSIBILITY IT IS TO COMPLY WITH FEDERAL AND STATE RIGHT-TO-KNOW REGULATIONS. ALSO MAKE THIS INFORMATION AVAILABLE TO ANY EMPLOYEE WHO REQUESTS IT. IT IS YOUR OBLIGATION TO COMPLY WITH THESE REGULATIONS.

SECTION I - PRODUCT IDENTITY



PRODUCT NAME: STAINLESS STEEL POLISH

FORMULA: MIXTURE OF SOLVENTS AND DETERGENTS IN WATER.

CHEMICAL TYPE: AS ABOVE

HMIS RATINGS:

HEALTH 0 (MINIMAL)
FLAMMABILITY 0 (MINIMAL)
REACTIVITY 0 (MINIMAL)
PROTECTION B (GOGGLES & GLOVES)

SECTION II - HAZARDOUS INGREDIENTS



INGREDIENTS	PERCENT	TLV	CARCINOGEN (OSHA, TP, IARC)
DIPROPYLENE GLYCOL METHYL ETHER CAS NO.: 34590-94-8	5-10%	100 PPM	NO
WHITE MINERAL OIL CAS NO.: 8042-47-5	3-7%	TWA: 5 MG/M3 STEL: 10 MG/M3	NO

SECTION III - CHEMICAL AND PHYSICAL



APPEARANCE: CLEAR YELLOW LIQUID

BOILING POINT: <212 DEG. F.

ODOR: MILD, NO FRAGRANCE ADDED

MELTING POINT: N/A

pH: 6.0 - 8.0

SPEC. GRAVITY (H2O = 1): 1.0

WATER SOLUBILITY: COMPLETE

VAPOR PRESSURE (MMHg): N/A

VISCOSITY @ 25 DEG. C: <25 CPS (BROOKFIELD)

VOC CONTENT: 0%

SECTION IV - FIRE AND EXPLOSION HAZARDS



FLASH POINT (METHOD): NONE

EXPLOSION LIMITS:

UPPER: N/A

LOWER: N/A

EXTINGUISHING MEDIA: WATER FOG, FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES AND HAZARDS:

IN GENERAL, NO SPECIAL ASPECTS.

SECTION V - REACTIVITY INFORMATION

STABLE (X)
UNSTABLE ()

PRECAUTIONS:
INCOMPATIBILITY: NONE KNOWN

HAZARDOUS DECOMPOSITION PRODUCTS:
IF IN A FIRE: CO, CO₂, HYDROCARBONS.

HAZARDOUS POLYMERIZATION:
OCCURS ()
DOES NOT OCCUR (X)

SECTION VI - HEALTH HAZARDS - PROTECTIVE MEASURES - FIRST AID

INHALATION:
BREATHING OF VAPORS MAY CAUSE DIZZINESS AND SHORTNESS OF BREATH. REMOVE TO FRESH AIR.

SKIN:
EXTENDED CONTACT COULD CAUSE IRRITATION. SOME PERSONNEL ARE MORE SENSITIVE THAN OTHERS, WEAR GLOVES.

EYES:
CAN CAUSE IRRITATION. WEAR APPROPRIATE EYE PROTECTION. FLUSH IMMEDIATELY WITH WATER FOR 15 MINUTES. GET PROMPT MEDICAL ATTENTION IF NEEDED.

INGESTION:
MAY CAUSE A MILD GASTRIC DISTURBANCE. DRINK LOTS OF WATER. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IF EFFECTS PERSIST.

MOST LIKELY ROUTES OF ENTRY: SKIN, EYES.

OTHER IMPORTANT MEDICAL OR PRECAUTIONARY INFORMATION: NONE

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

SPILLS AND LEAKS:
SMALL SPILLS CAN BE FLUSHED INTO NORMAL DRAINAGE OR INTO GROUND WITH COPIOUS AMOUNTS OF WATER, OR TAKEN UP WITH ABSORBENT MATERIAL. LARGER SPILLS SHOULD BE CONTAINED BY DIKING OR OTHER METHODS AND HELD FOR DISPOSAL OR REUSE. PROVIDE STRONG VENTILATION.

STORAGE AND HANDLING:
CHECK DAILY FOR ANY LEAKS FROM CONTAINERS, VESSELS, PUMPS, AND PIPING.

WASTE DISPOSAL:
COLLECT IN CLOSED CONTAINERS AND SEND TO A LICENSED TREATMENT OR DISPOSAL FACILITY.

EMPTY CONTAINERS: N/A

OTHER PRECAUTIONS: N/A

SECTION VIII - REGULATORY INFORMATION

REPORTABLE FOR SARA TITLE III, S.313 (FORM R): NONE

THE INFORMATION HEREIN HAS BEEN COMPILED FROM SOURCES BELIEVED TO BE RELIABLE AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, NYCO PRODUCTS COMPANY CANNOT GIVE ANY GUARANTEES REGARDING INFORMATION FROM OTHER SOURCES, AND EXPRESSLY DOES NOT MAKE ANY WARRANTIES, NOR ASSUMES ANY LIABILITY, FOR ITS USE.

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MSDS

Common Name: STRIDE FRAGRANCE FREE SC NEUTRAL CLEANER**Manufacturer:** DIVERSEY**MSDS Revision Date:** 3/16/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 11Y664, 46E789**Manufacturer Model Number(s):**

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DIVERSEY (TM)

MATERIAL SAFETY DATA SHEET

STRIDE FRAGRANCE FREE SC NEUTRAL CLEANER

	HMIS	NFPA
HEALTH	2	2
FIRE HAZARD	0	0
REACTIVITY	0	0

PERSONAL PROTECTIVE EQUIPMENT: NONE

VERSION NUMBER: 6

PREPARATION DATE: 2011-03-16

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: STRIDE FRAGRANCE FREE SC NEUTRAL CLEANER

MSDS #: MS0200009

PRODUCT CODE: 4493981, 4240626

RECOMMENDED USE:

NEUTRAL CLEANER. THIS PRODUCT IS INTENDED TO BE DILUTED PRIOR TO USE.

MANUFACTURER, IMPORTER, SUPPLIER:

US HEADQUARTERS:

DIVERSEY, INC.

8310 16TH ST.

STURTEVANT, WISCONSIN 53177-1964

PHONE: 1-888-352-2249

CANADIAN HEADQUARTERS:

DIVERSEY, INC. - CANADA, INC.

2401 BRISTOL CIRCLE

OAKVILLE, ONTARIO L6H 6P1

PHONE: 1-800-668-3131

MSDS INTERNET ADDRESS: WWW.DIVERSEY.COM

EMERGENCY TELEPHONE NUMBER:

1-800-851-7145 (U.S.)

1-651-917-6133 (INT'L)

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

CAUTION. CAUSES EYE IRRITATION. MAY BE MILDLY IRRITATING TO SKIN.

PRINCIPAL ROUTES OF EXPOSURE: EYE CONTACT. SKIN CONTACT. INHALATION.

EYE CONTACT: MODERATELY IRRITATING TO THE EYES.

SKIN CONTACT: MAY BE MILDLY IRRITATING TO SKIN.

INHALATION: NONE KNOWN.

INGESTION: MAY CAUSE IRRITATION TO MOUTH, THROAT AND STOMACH.

3. COMPOSITION/INFORMATION ON INGREDIENTS



INGREDIENT(S)	CAS #	WEIGHT %	LD50	LD50	LC50
			ORAL - RAT (MG/KG)	DERMAL - RABBIT	INHALATION - RAT
ALCOHOL	68439-46-3	5 - 10%	1378	>2 G/KG	NOT
ETHOXYLATES					AVAILABLE

4. FIRST AID MEASURES



EYE CONTACT:

FLUSH IMMEDIATELY WITH PLENTY OF WATER. IF IRRITATION PERSISTS, GET MEDICAL

ATTENTION.

SKIN CONTACT:

FLUSH IMMEDIATELY WITH PLENTY OF WATER. IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION.

INHALATION: NO SPECIFIC FIRST AID MEASURES ARE REQUIRED.

INGESTION: IF SWALLOWED, GIVE A CUPFUL OF WATER OR MILK.

AGGRAVATED MEDICAL CONDITIONS: NONE KNOWN

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:

THE PRODUCT IS NOT FLAMMABLE. EXTINGUISH FIRE USING AGENT SUITABLE FOR SURROUNDING FIRE.

SPECIFIC HAZARDS: NOT APPLICABLE

UNUSUAL HAZARDS: NONE KNOWN

SPECIFIC METHODS: NO SPECIAL METHODS REQUIRED

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:

NO INFORMATION AVAILABLE

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS: NOT RELEVANT FOR THE PRODUCT ITSELF.

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

CLEAN-UP METHODS - LARGE SPILLAGE. ABSORB SPILL WITH INERT MATERIAL (E.G. DRY SAND OR EARTH), THEN PLACE IN A CHEMICAL WASTE CONTAINER. USE A WATER RINSE FOR FINAL CLEAN-UP.

7. HANDLING AND STORAGE



HANDLING:

AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

STORAGE:

PROTECT FROM FREEZING. KEEP TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE. KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



ENGINEERING MEASURES TO REDUCE EXPOSURE:

NO SPECIAL VENTILATION REQUIREMENTS GENERAL ROOM VENTILATION IS ADEQUATE

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.

HAND PROTECTION: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS

SKIN AND BODY PROTECTION:

NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.

RESPIRATORY PROTECTION:

NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.

HYGIENE MEASURES:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID

BULK DENSITY: NO INFORMATION AVAILABLE

APPEARANCE: LIQUID AQUEOUS SOLUTION

EVAPORATION RATE: NO INFORMATION AVAILABLE

SPECIFIC GRAVITY: 1.01

COLOR: CLEAR ORANGE

VAPOR DENSITY: NO INFORMATION AVAILABLE

ODOR: NO ODOR/ODORLESS

BOILING POINT/RANGE: NOT DETERMINED

MELTING POINT/RANGE: NOT DETERMINED

DECOMPOSITION TEMPERATURE: NOT DETERMINED

AUTOIGNITION TEMPERATURE: NO INFORMATION AVAILABLE

SOLUBILITY: COMPLETELY SOLUBLE

DENSITY:

8.42 LBS/GAL

1.01 KG/L

SOLUBILITY IN OTHER SOLVENTS: NO INFORMATION AVAILABLE

FLASH POINT:

>200 DEG. F

>93.4 DEG. C

PARTITION COEFFICIENT (n-OCTANOL/WATER): NO INFORMATION AVAILABLE

VISCOSITY: NO INFORMATION AVAILABLE

ELEMENTAL PHOSPHORUS: 0.00% BY WT.

VOC: 0% *

pH: 7

DILUTION pH: 7 @ 1:256

EXPLOSION LIMITS:

UPPER: NOT DETERMINED

LOWER: NOT DETERMINED

* - TITLE 17, CALIFORNIA CODE OF REGULATIONS, DIVISION 3, CHAPTER 1,
SUBCHAPTER 8.5, ARTICLE 2, CONSUMER PRODUCTS, SECTIONS 94508

10. STABILITY AND REACTIVITY



STABILITY: THE PRODUCT IS STABLE

POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: NONE REASONABLY FORESEEABLE.

11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

ORAL LD50 ESTIMATED TO BE GREATER THAN 5000 MG/KG.

DERMAL LD50 ESTIMATED TO BE >2000 MG/KG.

COMPONENT INFORMATION: SEE SECTION 3

CHRONIC TOXICITY: NONE KNOWN

SPECIFIC EFFECTS:

CARCINOGENIC EFFECTS: NONE KNOWN

MUTAGENIC EFFECTS: NONE KNOWN

REPRODUCTIVE TOXICITY: NONE KNOWN

TARGET ORGAN EFFECTS: NONE KNOWN

12. ECOLOGICAL INFORMATION



ENVIRONMENTAL INFORMATION: NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS



WASTE FROM RESIDUES / UNUSED PRODUCTS:

DISPOSE OF ACCORDING TO ALL FEDERAL, STATE AND LOCAL APPLICABLE
REGULATIONS

14. TRANSPORT INFORMATION



DOT/TDG:

PLEASE REFER TO THE BILL OF LADING/RECEIVING DOCUMENTS FOR UP TO DATE
SHIPPING INFORMATION

15. REGULATORY INFORMATION

INTERNATIONAL INVENTORIES AT CAS# LEVEL:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE FOLLOWING INVENTORIES:
U.S.A. (TSCA), CANADA (DSL/NDL).

U.S. REGULATIONS:

CALIFORNIA PROPOSITION 65:
THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER
CALIFORNIA'S PROPOSITION 65

RIGHT TO KNOW (RTK):

INGREDIENT(S)	CAS #	MARTK	NJRTK	PARTK	RIRTK
ALCOHOL ETHOXYLATES	68439-46-3				
WATER	7732-18-5				

CERCLA / SARA:

SARA 311/312 HAZARD CATEGORIES:

IMMEDIATE	(X)
DELAYED	()
FIRE	()
REACTIVITY	()
SUDDEN RELEASE OF PRESSURE	()

CANADA:

WHMIS HAZARD CLASS:
D2B: TOXIC MATERIALS

16. OTHER INFORMATION

REASON FOR REVISION: NOT APPLICABLE

PREPARED BY: NAPRAC

ADDITIONAL ADVICE: DOES NOT CONTAIN AN ADDED FRAGRANCE.

NOTICE TO READER:
THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED
TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR
IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL
CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS
RESPONSIBLE TO EVALUATE ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR
ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL
AND LOCAL LAWS AND REGULATIONS.

[Close this window](#)

MSDS

Common Name: TOUGH GUY NEUTRAL QUATERNARY DISINFECTANT**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 5/21/2012**MSDS Format:** No Format Specified**Grainger Item Number(s):** 12M174**Manufacturer Model Number(s):**

MSDS Table of Contents

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SAFETY DATA SHEET

GRAINGER(R*)

FOR THE ONES WHO GET IT DONE

MANUFACTURED FOR:

W.W. GRAINGER, INC.

100 GRAINGER PKWY.

LAKE FOREST, IL 60045-5201

1-847-535-1000

WWW.GRAINGER.COM

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: TOUGH GUY NEUTRAL QUATERNARY DISINFECTANT

PRODUCT USE: DISINFECTANT. DETERGENT. DEODORIZER

PRODUCT CODE: 12M174

DATE OF ISSUE: 05/21/12

SUPERSEDES: 07/21/11

EPA ID NO.: 10324-56-84533

EMERGENCY TELEPHONE NUMBERS:

FOR MSDS INFORMATION:

TECHNICAL SERVICES: 1-847-535-5400

FOR MEDICAL EMERGENCY: (800) 983-4582 TOLL FREE

FOR TRANSPORTATION EMERGENCY:

CHEMTREC: (800) 424-9300 - ALL CALLS RECORDED

IN THE DISTRICT OF COLUMBIA: (202) 483-7616

PREPARED BY:

COMPLIANCE SERVICES

1420 SEABOARD INDUSTRIAL BLVD.

ATLANTA, GA 30318

SECTION 2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

DANGER!

CAUSES EYE BURNS. CAUSES SKIN IRRITATION. HARMFUL IF ABSORBED THROUGH SKIN, SWALLOWED OR INHALED.

*HAZARD DETERMINATION SYSTEM (HDS):

HEALTH 3

FLAMMABILITY 0

REACTIVITY 0

NOTE:

MSDS DATA PERTAINS TO THE PRODUCT AS DELIVERED IN THE ORIGINAL SHIPPING CONTAINER(S). RISK OF ADVERSE EFFECTS ARE LESSENED BY FOLLOWING ALL PRESCRIBED SAFETY PRECAUTIONS, INCLUDING THE USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT.

ACUTE EFFECTS:

ROUTES OF ENTRY: DERMAL CONTACT. EYE CONTACT. INHALATION.

EYES:

CAUSES EYE BURNS. DIRECT CONTACT WITH THE EYES CAN CAUSE IRREVERSIBLE DAMAGE, INCLUDING BLINDNESS. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING AND ITCHING.

SKIN:

CAUSES SKIN IRRITATION. HARMFUL IF ABSORBED THROUGH THE SKIN. SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, REDDENING OR, OCCASIONALLY, BLISTERING.

INHALATION:

HARMFUL BY INHALATION. AVOID INHALATION OF VAPOR, SPRAY OR MIST. OVER-EXPOSURE BY INHALATION MAY CAUSE RESPIRATORY IRRITATION.

INGESTION:

HARMFUL IF SWALLOWED. MAY CAUSE BURNS TO MOUTH, THROAT AND STOMACH.

CHRONIC EFFECTS:

CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: KIDNEYS.

REPEATED OR PROLONGED CONTACT WITH SPRAY OR MIST MAY PRODUCE CHRONIC EYE IRRITATION AND SEVERE SKIN IRRITATION. REPEATED OR PROLONGED EXPOSURE TO SPRAY OR MIST MAY PRODUCE RESPIRATORY TRACT IRRITATION LEADING TO FREQUENT ATTACKS OF BRONCHIAL INFECTION.

CARCINOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

PRODUCT/INGREDIENT NAME: NOT AVAILABLE.

ADDITIONAL INFORMATION: SEE TOXICOLOGICAL INFORMATION (SECTION 11)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

NAME OF HAZARDOUS INGREDIENTS	CAS NUMBER	% BY WEIGHT
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-18-ALKYLDIMETHYL, CHLORIDES	68391-01-5	6.25
QUATERNARY AMMONIUM COMPOUNDS, C12-14-ALKYL[(ETHYLPHENYL)METHYL]DIMETHYL, CHLORIDES	85409-23-0	6.25
TETRASODIUM ETHYLENE DIAMINE TETRAACETATE	64-02-8	1 - 5
SODIUM CARBONATE	497-19-8	1 - 5
ETHANOL; ETHYL ALCOHOL	64-17-5	1 - 5

SECTION 4. FIRST AID MEASURES**EYE CONTACT:**

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. CHECK FOR AND REMOVE ANY CONTACT LENSES. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

FLUSH AFFECTED SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. CONTINUE TO RINSE FOR AT LEAST 10 MINUTES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INHALATION:

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. IF VOMITING OCCURS, THE HEAD SHOULD BE KEPT LOW SO THAT VOMIT DOES NOT ENTER THE LUNGS. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF AFFECTED PERSON IS CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT: NOT AVAILABLE.

FLAMMABLE LIMITS: NOT AVAILABLE.

FLAMMABILITY: NON-FLAMMABLE.

FIRE HAZARD:

IN A FIRE OR IF HEATED, A PRESSURE INCREASE WILL OCCUR AND THE CONTAINER MAY BURST.

FIRE-FIGHTING PROCEDURES:

USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE.

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

3
0
0

SECTION 6. ACCIDENTAL RELEASE MEASURES



SPILL CLEAN UP:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. DILUTE WITH WATER AND MOP UP IF WATER-SOLUBLE OR ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER.

SECTION 7. HANDLING AND STORAGE



HANDLING:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). DO NOT GET IN EYES OR ON SKIN OR CLOTHING. DO NOT BREATHE VAPOR OR MIST. DO NOT INGEST. DO NOT REUSE CONTAINER. WASH THOROUGHLY AFTER HANDLING. APPLY THIS PRODUCT ONLY AS SPECIFIED ON THE LABEL.

STORAGE:

OBSERVE LABEL PRECAUTIONS. STORE IN ORIGINAL CONTAINER PROTECTED FROM DIRECT SUNLIGHT IN A DRY, COOL AND WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10) AND FOOD AND DRINK.

STORE BETWEEN THE FOLLOWING TEMPERATURES:

40 DEG. F - 120 DEG. F (4.4 DEG. C - 49 DEG. C). KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE. DO NOT STORE IN UNLABELED CONTAINERS. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



PRODUCT NAME

EXPOSURE LIMITS

ETHANOL; ETHYL ALCOHOL

ACGIH TLV (UNITED STATES, 2/2010).
STEL: 1000 PPM 15 MINUTE(S).

OSHA PEL 1989 (UNITED STATES, 3/1989).
TWA: 1000 PPM 8 HOUR(S).
TWA: 1900 MG/M3 8 HOUR(S).

NIOSH REL (UNITED STATES, 6/2009).

TWA: 1000 PPM 10 HOUR(S) .
TWA: 1900 MG/M3 10 HOUR(S) .

OSHA PEL (UNITED STATES, 6/2010) .
TWA: 1000 PPM 8 HOUR(S) .
TWA: 1900 MG/M3 8 HOUR(S) .

PERSONAL PROTECTIVE EQUIPMENT (PPE) :

EYES: SPLASH GOGGLES. FACE SHIELD.

BODY: WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT.

RECOMMENDED:

RUBBER GLOVES. NEOPRENE GLOVES. NITRILE GLOVES. SYNTHETIC APRON.

RESPIRATORY:

USE WITH ADEQUATE VENTILATION. A RESPIRATOR IS NOT NEEDED UNDER NORMAL AND INTENDED CONDITIONS OF PRODUCT USE.

CHEMICAL GOGGLES

FACE SHIELD

GLOVES

APRON

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID.

PH: 10 TO 12

BOILING POINT: 104.44 DEG. C (220 DEG. F)

SPECIFIC GRAVITY: 1.044

SOLUBILITY:

SOLUBLE IN THE FOLLOWING MATERIALS: COLD WATER AND HOT WATER.

COLOR: CLEAR. COLORLESS.

ODOR: MILD.

VAPOR PRESSURE: NOT AVAILABLE.

VAPOR DENSITY: NOT AVAILABLE.

EVAPORATION RATE: 1 (WATER = 1)

VOC (CONSUMER): 2.3% (W/W) 0.205 LBS/GAL (24.5 G/L)

SECTION 10. STABILITY AND REACTIVITY



STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY:

REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS: OXIDIZING MATERIALS AND REDUCING MATERIALS.

HAZARDOUS POLYMERIZATION:

UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON OXIDES (CO, CO₂), NITROGEN OXIDES (NO, NO₂ ETC.), AMINES, HYDROGEN CHLORIDE (HCL).

SECTION 11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
SODIUM CARBONATE	LD50 ORAL	RAT	4090 MG/KG	
TETRASODIUM ETHYLENE DIAMINE TETRAACETATE	LD50 ORAL	RAT	10 G/KG	
ETHANOL	LC50 INHALATION VAPOR	RAT	124700 MG/M3	4 HOURS
	LD50 ORAL	RAT	7 G/KG	

SECTION 12. ECOLOGICAL INFORMATION



ENVIRONMENTAL EFFECTS:

TOXIC TO:

FISH AND AQUATIC INVERTEBRATES. OBSERVE LABEL PRECAUTIONS.
DO NOT DISCHARGE THIS MATERIAL INTO SEWER. KEEP OUT OF WATERWAYS.

AQUATIC ECOTOXICITY:

PRODUCT/INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
SODIUM CARBONATE	ACUTE EC50:	242000 (MICRO)G/L FRESH WATER	ALGAE - DIATOM - NAVICULA SEMINULUM	96 HOURS
	ACUTE LC50:	176000 (MICRO)G/L FRESH WATER	CRUSTACEANS - SCUD ORDER - AMPHIPODA	48 HOURS
	ACUTE LC50:	265000 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA	48 HOURS
	ACUTE LC50:	300000 (MICRO)G/L FRESH WATER	FISH - BLUEGILL - LEPOMIS MACROCHIRUS - 3.88 CM - 0.96 G	96 HOURS
TETRASODIUM ETHYLENE DIAMINE TETRAACETATE	ACUTE EC50:	610 MG/L	DAPHNIA	24 HOURS
	ACUTE LC50:	486000 (MICRO)G/L FRESH WATER	FISH - BLUEGILL - LEPOMIS MACROCHIRUS	96 HOURS

ETHANOL	ACUTE LC50:	CRUSTACEANS -	48 HOURS
	25500 (MICRO)G/L	BRINE SHRIMP -	
	MARINE WATER	ARTEMIA	
		FRANCHISCANA -	
		LARVAE	

SECTION 13. DISPOSAL CONSIDERATIONS



WASTE INFORMATION:

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES FOR ADDITIONAL INFORMATION.

WASTE STREAM:

CLASSIFICATION: NON-HAZARDOUS WASTE
ORIGIN: RCRA WASTE.

SECTION 14. TRANSPORT INFORMATION



REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PG*	LABEL
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DOT CLASSIFICATION	NOT REGULATED.
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NOTE:

DOT CLASSIFICATION APPLIES TO MOST PACKAGE SIZES. FOR SPECIFIC CONTAINER SIZE CLASSIFICATIONS OR FOR SIZE EXCEPTIONS, REFER TO THE BILL OF LADING WITH YOUR SHIPMENT.

PG*: PACKING GROUP

SECTION 15. REGULATORY INFORMATION



U.S. FEDERAL REGULATIONS:

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:
NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 311: NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES: NO PRODUCTS WERE FOUND.

ALL COMPONENTS OF THIS PRODUCT ARE LISTED OR EXEMPT FROM LISTING ON TSCA INVENTORY.

STATE REGULATIONS:

CALIFORNIA PROP 65: NO PRODUCTS WERE FOUND.

SECTION 16. OTHER INFORMATION



TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE.

HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS SUBSIDIARIES ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

*NOTE:

HAZARD DETERMINATION SYSTEM (HDS) RATINGS ARE BASED ON A 0-4 RATING SCALE, WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS ALTHOUGH THESE RATINGS ARE NOT REQUIRED ON MSDSS UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM. HDS RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED PROGRAM TO RELAY THE MEANINGS OF THIS SCALE.

[Close this window](#)

MSDS

Common Name: TOUGH GUY CONCENTRATED GLASS CLEANER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 7/5/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 12M176**Manufacturer Model Number(s):**

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SAFETY DATA SHEET

GRAINGER(R*) FOR THE ONES WHO GET IT DONE

MANUFACTURED FOR:

W.W. GRAINGER, INC.

100 GRAINGER PKWY.

LAKE FOREST, IL 60045-5201

1-847-535-1000

WWW.GRAINGER.COM

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: TOUGH GUY CONCENTRATED GLASS CLEANER

PRODUCT USE: CONCENTRATED GLASS CLEANER

PRODUCT CODE: 12M176

DATE OF ISSUE: 07/05/11

SUPERSEDES:

EMERGENCY TELEPHONE NUMBERS:

FOR MSDS INFORMATION:

TECHNICAL SERVICES: 1-847-535-5400

FOR MEDICAL EMERGENCY: (800) 983-4582 TOLL FREE

FOR TRANSPORTATION EMERGENCY:

CHEMTREC: (800) 424-9300 - ALL CALLS RECORDED

IN THE DISTRICT OF COLUMBIA: (202) 483-7616

PREPARED BY:

COMPLIANCE SERVICES

1420 SEABOARD INDUSTRIAL BLVD.

ATLANTA, GA 30318

SECTION 2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

WARNING!

COMBUSTIBLE. CAUSES EYE AND SKIN IRRITATION.

HARMFUL IF SWALLOWED.

NOTE:

MSDS DATA PERTAINS TO THE PRODUCT AS DELIVERED IN THE ORIGINAL SHIPPING CONTAINER(S). RISK OF ADVERSE EFFECTS ARE LESSENER BY FOLLOWING ALL PRESCRIBED SAFETY PRECAUTIONS, INCLUDING THE USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT.

ACUTE EFFECTS:

ROUTES OF ENTRY: DERMAL CONTACT. EYE CONTACT. INHALATION.

EYES:

CAUSES EYE IRRITATION. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING AND ITCHING.

SKIN:

CAUSES SKIN IRRITATION. SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, OR REDDENING. PRODUCT MAY BE DERMAL ABSORBED.

INHALATION:

AVOID BREATHING VAPORS, SPRAY OR MISTS. OVER-EXPOSURE BY INHALATION MAY CAUSE RESPIRATORY IRRITATION. CAN CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

INGESTION: INGESTION MAY CAUSE GASTROINTESTINAL IRRITATION AND DIARRHEA.

CHRONIC EFFECTS:

CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS:

BLOOD, KIDNEYS, THE REPRODUCTIVE SYSTEM, LIVER, UPPER RESPIRATORY TRACT, SKIN, EYES, CENTRAL NERVOUS SYSTEM (CNS).

CARCINOGENICITY:

INGREDIENTS: NOT LISTED AS CARCINOGEN BY OSHA, NTP OR IARC.

PRODUCT/INGREDIENT NAME: NOT AVAILABLE.

ADDITIONAL INFORMATION: SEE TOXICOLOGICAL INFORMATION (SECTION 11)

*HAZARD DETERMINATION SYSTEM (HDS):

HEALTH 1
FLAMMABILITY 2
REACTIVITY 0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



NAME OF HAZARDOUS INGREDIENTS	CAS NUMBER	% BY WEIGHT
ETHANOL; ETHYL ALCOHOL; GRAIN ALCOHOL	64-17-5	5 - 15
DETERGENT SURFACTANT BLEND	65143-89-7 70191-76-3	1 - 5
AQUA AMMONIA 26 BE; AMMONIUM HYDROXIDE; AMMONIA, AQUEOUS SOLUTION	1336-21-6	<3

SECTION 4. FIRST AID MEASURES



EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. CHECK FOR AND REMOVE ANY CONTACT LENSES. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

FLUSH AFFECTED SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. CONTINUE TO RINSE FOR AT LEAST 10 MINUTES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INHALATION:

MOVE EXPOSED PERSON TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. IF VOMITING OCCURS, THE HEAD SHOULD BE KEPT LOW SO THAT VOMIT DOES NOT ENTER THE LUNGS. IF AFFECTED PERSON IS CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5. FIRE FIGHTING MEASURES



FLASH POINT:

CLOSED CUP: 44.44 DEG. C (112 DEG. F)

FLAMMABLE LIMITS: NOT AVAILABLE.

FLAMMABILITY: COMBUSTIBLE.

FIRE HAZARD:

COMBUSTIBLE LIQUID AND VAPOR. IN A FIRE OR IF HEATED, A PRESSURE INCREASE

WILL OCCUR AND THE CONTAINER MAY BURST, WITH THE RISK OF A SUBSEQUENT EXPLOSION. RUNOFF TO SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.

FIRE-FIGHTING PROCEDURES: USE DRY CHEMICAL, CO2, WATER SPRAY (FOG) OR FOAM.

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

1
2
0

SECTION 6. ACCIDENTAL RELEASE MEASURES



SPILL CLEAN UP:

ELIMINATE ALL IGNITION SOURCES. PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. DILUTE WITH WATER AND MOP UP IF WATER-SOLUBLE OR ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER.

SECTION 7. HANDLING AND STORAGE



HANDLING:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). DO NOT GET IN EYES OR ON SKIN OR CLOTHING. DO NOT BREATHE VAPOR OR MIST. DO NOT INGEST. USE ONLY WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. DO NOT REUSE CONTAINER. STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME OR ANY OTHER IGNITION SOURCE.

STORAGE:

STORE IN ORIGINAL CONTAINER PROTECTED FROM DIRECT SUNLIGHT IN A DRY, COOL AND WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10) AND FOOD AND DRINK. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE.

STORE BETWEEN THE FOLLOWING TEMPERATURES:

40 DEG. F - 120 DEG. F (4.4 DEG. C - 49 DEG. C). KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



PRODUCT NAME

ETHANOL; ETHYL ALCOHOL; GRAIN
ALCOHOL

EXPOSURE LIMITS

NIOSH REL (UNITED STATES, 6/2009).
TWA: 1000 PPM 10 HOUR(S).
TWA: 1900 MG/M3 10 HOUR(S).

OSHA PEL (UNITED STATES, 11/2006).
TWA: 1000 PPM 8 HOUR(S).
TWA: 1900 MG/M3 8 HOUR(S).

ACGIH TLV (UNITED STATES, 1/2009).
STEL: 1000 PPM 15 MINUTE(S).

OSHA PEL 1989 (UNITED STATES, 3/1989).
TWA: 1000 PPM 8 HOUR(S).
TWA: 1900 MG/M3 8 HOUR(S).

AQUA AMMONIA 26 BE; AMMONIUM
HYDROXIDE; AMMONIA, AQUEOUS

ACGIH TLV (UNITED STATES).
TWA: 25 PPM 8 HOUR(S).

SOLUTION

ACGIH TLV / OSHA PEL (UNITED STATES) .
STEL: 35 PPM 15 MINUTE(S) .

PERSONAL PROTECTIVE EQUIPMENT (PPE) :

SAFETY GLASSES

GLOVES

EYES: SAFETY GLASSES.

BODY: RECOMMENDED: NEOPRENE GLOVES. RUBBER GLOVES. NITRILE GLOVES.

RESPIRATORY:

USE WITH ADEQUATE VENTILATION. PROVIDE EXHAUST VENTILATION OR OTHER
ENGINEERING CONTROLS TO KEEP THE AIRBORNE CONCENTRATIONS OF VAPORS BELOW
THEIR RESPECTIVE OCCUPATIONAL EXPOSURE LIMITS.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID.

pH: 10.5 TO 11.5

BOILING POINT: 104.44 DEG. C (220 DEG. F)

SPECIFIC GRAVITY: 0.99

SOLUBILITY:

EASILY SOLUBLE IN THE FOLLOWING MATERIALS: COLD WATER AND HOT WATER.

COLOR: CLEAR. BLUE.

ODOR: AMMONIACAL.

VAPOR PRESSURE: NOT DETERMINED.

VAPOR DENSITY: NOT DETERMINED.

EVAPORATION RATE: 1 (WATER = 1)

VOC (CONSUMER): 10%

SECTION 10. STABILITY AND REACTIVITY

STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY:

KEEP AWAY FROM HEAT, SPARKS AND FLAME. REACTIVE OR INCOMPATIBLE WITH THE
FOLLOWING MATERIALS:
OXIDIZING MATERIALS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES (CO, CO2)

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
ETHYLENE GLYCOL MONOBUTYL ETHER	LD50 DERMAL	GUINEA PIG	>2000 MG/KG	
	LD50 DERMAL	RABBIT	220 MG/KG	
	LD50	RAT	220 MG/KG	
	INTRAPERITONEAL			
	LD50 INTRAVENOUS	RAT	307 MG/KG	
	LD50 ORAL	GUINEA PIG	1200 MG/KG	
	LD50 ORAL	RAT	917 MG/KG	
	LD50 ORAL	RAT	250 MG/KG	
	LD50 UNREPORTED	RAT	917 MG/KG	
	LDLO ORAL	RAT	1500 MG/KG	
	TDLO ORAL	RAT	500 MG/KG	
	TDLO UNREPORTED	RAT	250 MG/KG	
	LC50 INHALATION	RAT	2900 MG/M3	7 HOURS
	VAPOR			
	LC50 INHALATION	GUINEA PIG	>633 PPM	1 HOURS
	VAPOR			
	LC50 INHALATION	RAT	450 PPM	4 HOURS
	GAS.			
DETERGENT SURFACTANT BLEND	LD50 DERMAL	RAT	>2000 MG/KG	
AQUA AMMONIA	LD50 ORAL	RAT	350 MG/KG	
	LC50 INHALATION	MOUSE	2500 PPM	1 HOURS
	VAPOR			

SECTION 12. ECOLOGICAL INFORMATION



ENVIRONMENTAL EFFECTS: NOT AVAILABLE.

AQUATIC ECOTOXICITY:

PRODUCT/INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
ETHANOL		ACUTE EC50 >100 PPM FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA - <24 HOURS	48 HOURS
		ACUTE EC50 2000 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA	48 HOURS
		ACUTE LC50 5680 MG/L FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA - NEONATE - <24 HOURS	48 HOURS
		ACUTE LC50 13 ML/L FRESH WATER	FISH - RAINBOW TROUT, DONALDSON TROUT - ONCORHYNCHUS MYKISS - 0.8 G	96 HOURS

ACUTE LC50 13480000 (MICRO)G/L FRESH WATER	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - JUVENILE (FLEDGLING, HATCHLING, WEANLING) - 4 TO 8 WEEKS - 1.1 TO 3.1 CM	96 HOURS
ACUTE LC50 10000000 TO 11500000 (MICRO)G/L MARINE WATER	FISH - BLEAK - ALBURNUS ALBURNUS - 8 CM	96 HOURS
ACUTE LC50 5577000 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - CERIODAPHNIA DUBIA - NEONATE	48 HOURS
ACUTE LC50 3715000 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - CERIODAPHNIA DUBIA - NEONATE	48 HOURS
ACUTE LC50 42000 (MICRO)G/L FRESH WATER	FISH - RAINBOW TROUT, DONALDSON TROUT - ONCORHYNCHUS MYKISS	4 DAYS
ACUTE LC50 25500 (MICRO)G/L MARINE WATER	CRUSTACEANS - BRINE SHRIMP - ARTEMIA FRANCHISCANA - LARVAE	48 HOURS
CHRONIC NOEC <6.3 G/L FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA	48 HOURS

SECTION 13. DISPOSAL CONSIDERATIONS



WASTE INFORMATION:

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES FOR ADDITIONAL INFORMATION.

WASTE STREAM:

CODE: D001

CLASSIFICATION: (HAZARDOUS WASTE)

ORIGIN: (RCRA WASTE.)

SECTION 14. TRANSPORT INFORMATION



REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PG*	LABEL
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DOT NOT REGULATED. NOT A DOT CONTROLLED
CLASSIFICATION MATERIAL
(UNITED STATES) .

NOTE:

DOT CLASSIFICATION APPLIES TO MOST PACKAGE SIZES. FOR SPECIFIC CONTAINER SIZE CLASSIFICATIONS OR FOR SIZE EXCEPTIONS, REFER TO THE BILL OF LADING WITH YOUR SHIPMENT.

PG*: PACKING GROUP

SECTION 15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:

PRODUCT NAME: AQUA AMMONIA

CLEAN WATER ACT (CWA) 307: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 311: AQUA AMMONIA

CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES: NO PRODUCTS WERE FOUND.

ALL COMPONENTS OF THIS PRODUCT ARE LISTED OR EXEMPT FROM LISTING ON TSCA INVENTORY.

UNITED STATES INVENTORY (TSCA 8B): NOT DETERMINED.

STATE REGULATIONS:

CALIFORNIA PROP 65: NO PRODUCTS WERE FOUND.

SECTION 16. OTHER INFORMATION

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS SUBSIDIARIES ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

***NOTE:**

HAZARD DETERMINATION SYSTEM (HDS) RATINGS ARE BASED ON A 0-4 RATING SCALE, WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS ALTHOUGH THESE RATINGS ARE NOT REQUIRED ON MSDSS UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM. HDS RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED PROGRAM TO RELAY THE MEANINGS OF THIS SCALE.

[Close this window](#)

MSDS

Common Name: TOUGH GUY NON-AMMONIATED GLASS CLEANER, 12M177**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 7/5/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 12M177**Manufacturer Model Number(s):**

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GRAINGER (R*)

FOR THE ONES WHO GET IT DONE

MATERIAL SAFETY DATA SHEET

SAFETY DATA SHEET

MANUFACTURED FOR:

W.W. GRAINGER, INC.

100 GRAINGER PKWY.

LAKE FOREST, IL 60045-5201

1-847-535-1000

WWW.GRAINGER.COM

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: TOUGH GUY NON-AMMONIATED GLASS CLEANER

PRODUCT USE: GLASS CLEANER.

PRODUCT CODE: 12M177

PREPARED BY:
COMPLIANCE SERVICES
1420 SEABOARD INDUSTRIAL BLVD.
ATLANTA, GA 30318

EMERGENCY TELEPHONE NUMBERS:

FOR MSDS INFORMATION:
TECHNICAL SERVICES: 1-847-535-5400

FOR MEDICAL EMERGENCY: (800) 983-4582 TOLL FREE

FOR TRANSPORTATION EMERGENCY:
CHEMTREC: (800) 424-9300 - ALL CALLS RECORDED
IN THE DISTRICT OF COLUMBIA: (202) 483-7616

DATE OF ISSUE: 07/05/11

SUPERSEDES:

SECTION 2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

WARNING!

COMBUSTIBLE LIQUID AND VAPOR. CAUSES EYE IRRITATION.

NOTE:

MSDS DATA PERTAINS TO THE PRODUCT AS DELIVERED IN THE ORIGINAL SHIPPING CONTAINER(S). RISK OF ADVERSE EFFECTS ARE LESSENERED BY FOLLOWING ALL PRESCRIBED SAFETY PRECAUTIONS, INCLUDING THE USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT.

ROUTES OF ENTRY: EYE CONTACT. INHALATION.

ACUTE EFFECTS:

EYES:

CAUSES EYE IRRITATION. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING AND ITCHING.

SKIN: PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

INHALATION:

OVER-EXPOSURE BY INHALATION MAY CAUSE RESPIRATORY IRRITATION AND CAN CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION. CAN CAUSE DIZZINESS, LIGHT-HEADEDNESS, HEADACHE, NAUSEA AND BLURRED VISION.

INGESTION:

MAY BE HARMFUL IF SWALLOWED. INGESTION MAY CAUSE NAUSEA, WEAKNESS AND CENTRAL NERVOUS SYSTEM EFFECTS.

CHRONIC EFFECTS:

REPEATED OR PROLONGED EXPOSURE TO THE SUBSTANCE CAN PRODUCE DAMAGE TO KIDNEYS, LIVER, CENTRAL NERVOUS SYSTEM (CNS), LUNGS.

REPEATED OR PROLONGED CONTACT WITH SPRAY OR MIST MAY PRODUCE CHRONIC EYE IRRITATION AND SEVERE SKIN IRRITATION. REPEATED OR PROLONGED EXPOSURE TO SPRAY OR MIST MAY PRODUCE RESPIRATORY TRACT IRRITATION LEADING TO FREQUENT

ATTACKS OF BRONCHIAL INFECTION.

CARCINOGENICITY:

INGREDIENTS: NOT LISTED AS CARCINOGEN BY OSHA, NTP OR IARC.

PRODUCT/INGREDIENT NAME	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
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NONE.

ADDITIONAL INFORMATION: SEE TOXICOLOGICAL INFORMATION (SECTION 11)

*HAZARD DETERMINATION SYSTEM (HDS):

HEALTH 1

FLAMMABILITY 2

REACTIVITY 0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



NAME OF HAZARDOUS INGREDIENTS	CAS NUMBER	% BY WEIGHT
ETHANOL; ETHYL ALCOHOL; GRAIN ALCOHOL	64-17-5	1 - 5
ISOPROPYL ALCOHOL; IPA; DIMETHYLCARBINOL; 2-PROPANOL	67-63-0	1 - 5

SECTION 4. FIRST AID MEASURES



EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. CHECK FOR AND REMOVE ANY CONTACT LENSES. CONTINUE TO RINSE FOR AT LEAST 10 MINUTES. GET MEDICAL ATTENTION.

SKIN CONTACT:

RINSE WITH PLENTY OF RUNNING WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INHALATION:

IF INHALED, REMOVE TO FRESH AIR. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF AFFECTED PERSON IS CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5. FIRE FIGHTING MEASURES



FLASH POINT:

CLOSED CUP: 48.3 DEG. C (119 DEG. F)

FLAMMABLE LIMITS: NOT AVAILABLE.

FLAMMABILITY:

COMBUSTIBLE LIQUID AND VAPOR. MAY BURN WHEN EXPOSED TO FLAME OR HIGH TEMPERATURE.

FIRE HAZARD:

COMBUSTIBLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. RUNOFF TO SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.

FIRE-FIGHTING PROCEDURES:

USE DRY CHEMICAL, CO₂, WATER SPRAY (FOG) OR FOAM. FIRE-FIGHTERS SHOULD WEAR APPROPRIATE PROTECTIVE EQUIPMENT.

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

1
2
0

SECTION 6. ACCIDENTAL RELEASE MEASURES**SPILL CLEAN UP:**

ELIMINATE ALL IGNITION SOURCES. STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. DILUTE WITH WATER AND MOP UP IF WATER-SOLUBLE OR ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER. USE SPARK-PROOF TOOLS AND EXPLOSION-PROOF EQUIPMENT. DISPOSE OF VIA A LICENSED WASTE DISPOSAL CONTRACTOR.

SECTION 7. HANDLING AND STORAGE**HANDLING:**

AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WORKERS SHOULD WASH HANDS AND FACE BEFORE EATING, DRINKING AND SMOKING. DO NOT INGEST. USE ONLY WITH ADEQUATE VENTILATION. STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME OR ANY OTHER IGNITION SOURCE. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS. DO NOT REUSE CONTAINER.

STORAGE:

STORE IN ACCORDANCE WITH LOCAL REGULATIONS. STORE IN ORIGINAL CONTAINER PROTECTED FROM DIRECT SUNLIGHT IN A DRY, COOL AND WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10) AND FOOD AND DRINK. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE. DO NOT STORE IN UNLABELED CONTAINERS. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**PRODUCT NAME****EXPOSURE LIMITS**

ETHANOL; ETHYL
ALCOHOL; GRAIN ALCOHOL

NIOSH REL (UNITED STATES, 6/2009).
TWA: 1000 PPM 10 HOUR(S).
TWA: 1900 MG/M³ 10 HOUR(S).

OSHA PEL (UNITED STATES, 11/2006).
TWA: 1000 PPM 8 HOUR(S).
TWA: 1900 MG/M³ 8 HOUR(S).

ACGIH TLV (UNITED STATES, 1/2009).
STEL: 1000 PPM 15 MINUTE(S).

OSHA PEL 1989 (UNITED STATES, 3/1989).
TWA: 1000 PPM 8 HOUR(S).
TWA: 1900 MG/M³ 8 HOUR(S).

ISOPROPYL ALCOHOL; IPA; ACGIH TLV (UNITED STATES, 1/2009).
DIMETHYLCARBINOL; TWA: 200 PPM 8 HOUR(S).
2-PROPANOL STEL: 400 PPM 15 MINUTE(S).

OSHA PEL 1989 (UNITED STATES, 3/1989).
TWA: 400 PPM 8 HOUR(S).
TWA: 980 MG/M3 8 HOUR(S).
STEL: 500 PPM 15 MINUTE(S).
STEL: 1225 MG/M3 15 MINUTE(S).

NIOSH REL (UNITED STATES, 6/2009).
TWA: 400 PPM 10 HOUR(S).
TWA: 980 MG/M3 10 HOUR(S).
STEL: 500 PPM 15 MINUTE(S).
STEL: 1225 MG/M3 15 MINUTE(S).

OSHA PEL (UNITED STATES, 11/2006).
TWA: 400 PPM 8 HOUR(S).
TWA: 980 MG/M3 8 HOUR(S).

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYES: SAFETY GLASSES.

BODY:

RECOMMENDED: RUBBER GLOVES. NEOPRENE GLOVES. NITRILE GLOVES.

RESPIRATORY:

USE WITH ADEQUATE VENTILATION. A RESPIRATOR IS NOT NEEDED UNDER NORMAL AND INTENDED CONDITIONS OF PRODUCT USE.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID.

pH: 9.5 - 10.0

BOILING POINT: 100 DEG. C (212 DEG. F)

SPECIFIC GRAVITY: 0.994

SOLUBILITY: SOLUBLE IN WATER IN ANY PROPORTION.

COLOR: CLEAR. BLUE.

ODOR: PLEASANT.

VAPOR PRESSURE: NOT DETERMINED.

VAPOR DENSITY: NOT DETERMINED.

EVAPORATION RATE: 1 COMPARED WITH WATER

VOC (CONSUMER): 3%

SECTION 10. STABILITY AND REACTIVITY



STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY:

REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS:
OPEN FLAMES, SPARKS AND STATIC DISCHARGE, OXIDIZING MATERIALS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES (CO, CO₂)

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: NOT AVAILABLE.

SECTION 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS: NOT AVAILABLE.

AQUATIC ECOTOXICITY:

PRODUCT/INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
ETHANOL		ACUTE EC50: >100 PPM FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA - <24 HOURS	48 HOURS
		ACUTE EC50: 2000 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA	48 HOURS
		ACUTE LC50: 5680 MG/L FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA - NEONATE - <24 HOURS	48 HOURS
		ACUTE LC50: 13 ML/L FRESH WATER	FISH - RAINBOW TROUT, DONALDSON TROUT - ONCORHYNCHUS MYKISS - 0.8 G	96 HOURS
		ACUTE LC50: 13480000 (MICRO)G/L FRESH WATER	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - JUVENILE (FLEDGLING, HATCHLING, WEANLING) - 4 TO 8 WEEKS - 1.1 TO 3.1 CM	96 HOURS
		ACUTE LC50: 10000000 TO 11500000 (MICRO)G/L MARINE WATER	FISH - BLEAK - ALBURNUS ALBURNUS - 8 CM	96 HOURS
		ACUTE LC50: 5577000 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - CERIODAPHNIA DUBIA - NEONATE	48 HOURS

ISOPROPYL ALCOHOL	ACUTE LC50: 3715000 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - CERIODAPHNIA DUBIA - NEONATE	48 HOURS
	ACUTE LC50: 42000 (MICRO)G/L FRESH WATER	FISH - RAINBOW TROUT, DONALDSON TROUT - ONCORHYNCHUS MYKISS	4 DAYS
	ACUTE LC50: 25500 (MICRO)G/L MARINE WATER	CRUSTACEANS - BRINE SHRIMP - ARTEMIA FRANCHISCANA - LARVAE	48 HOURS
	CHRONIC NOEC: <6.3 G/L FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA	48 HOURS
	ACUTE LC50: 11130000 (MICRO)G/L FRESH WATER	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - JUVENILE (FLEDGLING, HATCHLING, WEANLING) - 4 TO 8 WEEKS - 1.1 TO 3.1 CM	96 HOURS
	ACUTE LC50: 10400000 (MICRO)G/L FRESH WATER	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - 29 DAYS - 20 MM - 0.103 G	96 HOURS
	ACUTE LC50: 9640000 (MICRO)G/L FRESH WATER	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - 31 DAYS - 20.6 MM - 0.117 G	96 HOURS
	ACUTE LC50: 6550000 (MICRO)G/L FRESH WATER	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - 31 DAYS - 17.4 MM - 0.082 G	96 HOURS
	ACUTE LC50: 4200000 (MICRO)G/L FRESH WATER	FISH - HARLEQUINFISH, RED RASBORA - RASBORA HETEROMORPHA - 1 TO 3 CM	96 HOURS
	ACUTE LC50: 1400000 (MICRO)G/L MARINE WATER	CRUSTACEANS - COMMON SHRIMP, SAND SHRIMP - CRANGON CRANGON	48 HOURS
	ACUTE LC50: >1400000 (MICRO)G/L	FISH - WESTERN MOSQUITOFISH - GAMBUSIA AFFINIS - 20 TO 30 MM	96 HOURS

SECTION 13. DISPOSAL CONSIDERATIONS



WASTE INFORMATION:

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. CONSULT YOUR LOCAL OR REGIONAL

AUTHORITIES FOR ADDITIONAL INFORMATION.

WASTE STREAM:

CLASSIFICATION: NON-HAZARDOUS WASTE

SECTION 14. TRANSPORT INFORMATION



REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PG*	LABEL
DOT CLASSIFICATION	NOT APPLICABLE.	NONE.			

NOTE:

DOT CLASSIFICATION APPLIES TO MOST PACKAGE SIZES. FOR SPECIFIC CONTAINER SIZE CLASSIFICATIONS OR FOR SIZE EXCEPTIONS, REFER TO THE BILL OF LADING WITH YOUR SHIPMENT.

PG*: PACKING GROUP

SECTION 15. REGULATORY INFORMATION



U.S. FEDERAL REGULATIONS:

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:

PRODUCT NAME: ISOPROPYL ALCOHOL

CLEAN WATER ACT (CWA) 307: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 311: NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES:
NO PRODUCTS WERE FOUND.

ALL COMPONENTS OF THIS PRODUCT ARE LISTED OR EXEMPT FROM LISTING ON TSCA INVENTORY.

UNITED STATES INVENTORY (TSCA 8B): ALL COMPONENTS ARE LISTED OR EXEMPTED.

STATE REGULATIONS:

CALIFORNIA PROP 65: NO PRODUCTS WERE FOUND.

SECTION 16. OTHER INFORMATION



TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS SUBSIDIARIES ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

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*NOTE:

HAZARD DETERMINATION SYSTEM (HDS) RATINGS ARE BASED ON A 0-4 RATING SCALE,

WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS ALTHOUGH THESE RATINGS ARE NOT REQUIRED ON MSDSS UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM. HDS RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED PROGRAM TO RELAY THE MEANINGS OF THIS SCALE.

[Close this window](#)

MSDS

Common Name: TOUGH GUY NON-AMMONIATED GLASS CLEANER, 12M178**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 7/5/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 12M178**Manufacturer Model Number(s):**

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GRAINGER (R*)

FOR THE ONES WHO GET IT DONE

MATERIAL SAFETY DATA SHEET

SAFETY DATA SHEET

MANUFACTURED FOR:

W.W. GRAINGER, INC.

100 GRAINGER PKWY.

LAKE FOREST, IL 60045-5201

1-847-535-1000

WWW.GRAINGER.COM

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: TOUGH GUY NON-AMMONIATED GLASS CLEANER

PRODUCT USE: GLASS CLEANER.

PRODUCT CODE: 12M178

DATE OF ISSUE: 07/05/11

SUPERSEDES:

EMERGENCY TELEPHONE NUMBERS:

FOR MSDS INFORMATION: TECHNICAL SERVICES 1-847-535-5400

FOR MEDICAL EMERGENCY: (800) 983-4582 TOLL FREE

FOR TRANSPORTATION EMERGENCY:

CHEMTREC: (800) 424-9300 - ALL CALLS RECORDED

IN THE DISTRICT OF COLUMBIA: (202) 483-7616

PREPARED BY:

COMPLIANCE SERVICES

1420 SEABOARD INDUSTRIAL BLVD.

ATLANTA, GA 30318

SECTION 2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

WARNING!

COMBUSTIBLE LIQUID AND VAPOR. CAUSES EYE IRRITATION.

*HAZARD DETERMINATION SYSTEM (HDS):

HEALTH 1

FLAMMABILITY 2

REACTIVITY 0

NOTE:

MSDS DATA PERTAINS TO THE PRODUCT AS DELIVERED IN THE ORIGINAL SHIPPING CONTAINER(S). RISK OF ADVERSE EFFECTS ARE LESSENER BY FOLLOWING ALL PRESCRIBED SAFETY PRECAUTIONS, INCLUDING THE USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT.

ACUTE EFFECTS:

ROUTES OF ENTRY: EYE CONTACT. INHALATION.

EYES:

CAUSES EYE IRRITATION. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING AND ITCHING.

SKIN:

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

INHALATION:

OVER-EXPOSURE BY INHALATION MAY CAUSE RESPIRATORY IRRITATION AND CAN CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION. CAN CAUSE DIZZINESS, LIGHT-HEADEDNESS, HEADACHE, NAUSEA AND BLURRED VISION.

INGESTION:

MAY BE HARMFUL IF SWALLOWED. INGESTION MAY CAUSE NAUSEA, WEAKNESS AND CENTRAL NERVOUS SYSTEM EFFECTS.

CHRONIC EFFECTS:

REPEATED OR PROLONGED EXPOSURE TO THE SUBSTANCE CAN PRODUCE DAMAGE TO

KIDNEYS, LIVER, CENTRAL NERVOUS SYSTEM (CNS), LUNGS.

REPEATED OR PROLONGED CONTACT WITH SPRAY OR MIST MAY PRODUCE CHRONIC EYE IRRITATION AND SEVERE SKIN IRRITATION. REPEATED OR PROLONGED EXPOSURE TO SPRAY OR MIST MAY PRODUCE RESPIRATORY TRACT IRRITATION LEADING TO FREQUENT ATTACKS OF BRONCHIAL INFECTION.

CARCINOGENICITY:

INGREDIENTS: NOT LISTED AS CARCINOGEN BY OSHA, NTP OR IARC.

PRODUCT/INGREDIENT NAME	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
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NONE.

ADDITIONAL INFORMATION: SEE TOXICOLOGICAL INFORMATION (SECTION 11)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



NAME OF HAZARDOUS INGREDIENTS	CAS NUMBER	% BY WEIGHT
ETHANOL; ETHYL ALCOHOL; GRAIN ALCOHOL	64-17-5	1 - 5
ISOPROPYL ALCOHOL; IPA; DIMETHYLCARBINOL; 2-PROPANOL	67-63-0	1 - 5

SECTION 4. FIRST AID MEASURES



EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. CHECK FOR AND REMOVE ANY CONTACT LENSES. CONTINUE TO RINSE FOR AT LEAST 10 MINUTES. GET MEDICAL ATTENTION.

SKIN CONTACT:

RINSE WITH PLENTY OF RUNNING WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INHALATION:

IF INHALED, REMOVE TO FRESH AIR. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF AFFECTED PERSON IS CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5. FIRE FIGHTING MEASURES



FLASH POINT:

CLOSED CUP: 48.3 DEG. C (119 DEG. F)

FLAMMABLE LIMITS: NOT AVAILABLE.

FLAMMABILITY:

COMBUSTIBLE LIQUID AND VAPOR. MAY BURN WHEN EXPOSED TO FLAME OR HIGH TEMPERATURE.

FIRE HAZARD:

COMBUSTIBLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. RUNOFF TO SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.

FIRE-FIGHTING PROCEDURES:

USE DRY CHEMICAL, CO₂, WATER SPRAY (FOG) OR FOAM. FIRE-FIGHTERS SHOULD WEAR APPROPRIATE PROTECTIVE EQUIPMENT.

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

1
2
0

SECTION 6. ACCIDENTAL RELEASE MEASURES**SPILL CLEAN UP:**

ELIMINATE ALL IGNITION SOURCES. STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. DILUTE WITH WATER AND MOP UP IF WATER-SOLUBLE OR ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER. USE SPARK-PROOF TOOLS AND EXPLOSION-PROOF EQUIPMENT. DISPOSE OF VIA A LICENSED WASTE DISPOSAL CONTRACTOR.

SECTION 7. HANDLING AND STORAGE**HANDLING:**

AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WORKERS SHOULD WASH HANDS AND FACE BEFORE EATING, DRINKING AND SMOKING. DO NOT INGEST. USE ONLY WITH ADEQUATE VENTILATION. STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME OR ANY OTHER IGNITION SOURCE. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS. DO NOT REUSE CONTAINER.

STORAGE:

STORE IN ACCORDANCE WITH LOCAL REGULATIONS. STORE IN ORIGINAL CONTAINER PROTECTED FROM DIRECT SUNLIGHT IN A DRY, COOL AND WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10) AND FOOD AND DRINK. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE. DO NOT STORE IN UNLABELED CONTAINERS. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**PRODUCT NAME****EXPOSURE LIMITS**

ETHANOL; ETHYL ALCOHOL;
GRAIN ALCOHOL

NIOSH REL (UNITED STATES, 6/2009).
TWA: 1000 PPM 10 HOUR(S).
TWA: 1900 MG/M³ 10 HOUR(S).

OSHA PEL (UNITED STATES, 11/2006).
TWA: 1000 PPM 8 HOUR(S).
TWA: 1900 MG/M³ 8 HOUR(S).

ACGIH TLV (UNITED STATES, 1/2009).
STEL: 1000 PPM 15 MINUTE(S).

OSHA PEL 1989 (UNITED STATES, 3/1989).
TWA: 1000 PPM 8 HOUR(S).
TWA: 1900 MG/M³ 8 HOUR(S).

ISOPROPYL ALCOHOL; IPA;
DIMETHYLCARBINOL; 2-PROPANOL

ACGIH TLV (UNITED STATES, 1/2009).
TWA: 200 PPM 8 HOUR(S).
STEL: 400 PPM 15 MINUTE(S).

OSHA PEL 1989 (UNITED STATES, 3/1989).
TWA: 400 PPM 8 HOUR(S).
TWA: 980 MG/M3 8 HOUR(S).
STEL: 500 PPM 15 MINUTE(S).
STEL: 1225 MG/M3 15 MINUTE(S).

NIOSH REL (UNITED STATES, 6/2009).
TWA: 400 PPM 10 HOUR(S).
TWA: 980 MG/M3 10 HOUR(S).
STEL: 500 PPM 15 MINUTE(S).
STEL: 1225 MG/M3 15 MINUTE(S).

OSHA PEL (UNITED STATES, 11/2006).
TWA: 400 PPM 8 HOUR(S).
TWA: 980 MG/M3 8 HOUR(S).

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYES: SAFETY GLASSES.

BODY:

RECOMMENDED: RUBBER GLOVES. NEOPRENE GLOVES. NITRILE GLOVES.

RESPIRATORY:

USE WITH ADEQUATE VENTILATION. A RESPIRATOR IS NOT NEEDED UNDER NORMAL AND INTENDED CONDITIONS OF PRODUCT USE.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID.

COLOR: CLEAR. BLUE.

PH: 9.5 - 10.0

ODOR: PLEASANT.

BOILING POINT: 100 DEG. C (212 DEG. F)

VAPOR PRESSURE: NOT DETERMINED.

SPECIFIC GRAVITY: 0.994

VAPOR DENSITY: NOT DETERMINED.

SOLUBILITY: SOLUBLE IN WATER IN ANY PROPORTION.

EVAPORATION RATE: 1 COMPARED WITH WATER

VOC (CONSUMER): 3%

SECTION 10. STABILITY AND REACTIVITY



STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY:

REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS:
OPEN FLAMES, SPARKS AND STATIC DISCHARGE, OXIDIZING MATERIALS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES (CO, CO2)

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: NOT AVAILABLE.

SECTION 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS: NOT AVAILABLE.

AQUATIC ECOTOXICITY:

PRODUCT/INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
ETHANOL		ACUTE EC50: >100 PPM FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA - <24 HOURS	48 HOURS
		ACUTE EC50: 2000 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA	48 HOURS
		ACUTE LC50: 5680 MG/L FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA - NEONATE - <24 HOURS	48 HOURS
		ACUTE LC50: 13 ML/L FRESH WATER	FISH - RAINBOW TROUT, DONALDSON TROUT - ONCORHYNCHUS MYKISS - 0.8 G	96 HOURS
		ACUTE LC50: 13480000 (MICRO)G/L FRESH WATER	FISH - FATHEAD- MINNOW - PIMEPHALES PROMELAS - JUVENILE (FLEDGLING, HATCHLING, WEANLING) - 4 TO 8 WEEKS - 1.1 TO 3.1 CM	96 HOURS
		ACUTE LC50: 10000000 TO 11500000 (MICRO)G/L MARINE WATER	FISH - BLEAK - ALBURNUS ALBURNUS - 8 CM	96 HOURS
		ACUTE LC50: 5577000 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - CERIODAPHNIA DUBIA - NEONATE	48 HOURS

ISOPROPYL ALCOHOL	ACUTE LC50: 3715000 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - CERIODAPHNIA DUBIA - NEONATE	48 HOURS
	ACUTE LC50: 42000 (MICRO)G/L FRESH WATER	FISH - RAINBOW TROUT, DONALDSON TROUT - ONCORHYNCHUS MYKISS	4 DAYS
	ACUTE LC50: 25500 (MICRO)G/L MARINE WATER	CRUSTACEANS - BRINE SHRIMP - ARTEMIA FRANCHISCANA - LARVAE	48 HOURS
	CHRONIC NOEC: <6.3 G/L FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA	48 HOURS
	ACUTE LC50: 11130000 (MICRO)G/L FRESH WATER	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - JUVENILE (FLEDGLING, HATCHLING, WEANLING) - 4 TO 8 WEEKS - 1.1 TO 3.1 CM	96 HOURS
	ACUTE LC50: 10400000 (MICRO)G/L FRESH WATER	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - 29 DAYS - 20 MM - 0.103 G	96 HOURS
	ACUTE LC50: 9640000 (MICRO)G/L FRESH WATER	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - 31 DAYS - 20.6 MM - 0.117 G	96 HOURS
	ACUTE LC50: 6550000 (MICRO)G/L FRESH WATER	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - 31 DAYS - 17.4 MM - 0.082 G	96 HOURS
	ACUTE LC50: 4200000 (MICRO)G/L FRESH WATER	FISH - HARLEQUINFISH, RED RASBORA - RASBORA HETEROMORPHA - 1 TO 3 CM	96 HOURS
	ACUTE LC50: 1400000 (MICRO)G/L MARINE WATER	CRUSTACEANS - COMMON SHRIMP, SAND SHRIMP - CRANGON CRANGON	48 HOURS
	ACUTE LC50: >1400000 (MICRO)G/L	FISH - WESTERN MOSQUITOFISH - GAMBUSIA AFFINIS - 20 TO 30 MM	96 HOURS

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE INFORMATION:

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES FOR ADDITIONAL INFORMATION.

WASTE STREAM:

CLASSIFICATION: NON-HAZARDOUS WASTE

SECTION 14. TRANSPORT INFORMATION



REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PG*	LABEL
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DOT CLASSIFICATION NOT APPLICABLE. NONE.

NOTE:

DOT CLASSIFICATION APPLIES TO MOST PACKAGE SIZES. FOR SPECIFIC CONTAINER SIZE CLASSIFICATIONS OR FOR SIZE EXCEPTIONS, REFER TO THE BILL OF LADING WITH YOUR SHIPMENT.

PG*: PACKING GROUP

SECTION 15. REGULATORY INFORMATION



U.S. FEDERAL REGULATIONS:

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:

PRODUCT NAME: ISOPROPYL ALCOHOL

CLEAN WATER ACT (CWA) 307: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 311: NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES:
NO PRODUCTS WERE FOUND.

ALL COMPONENTS OF THIS PRODUCT ARE LISTED OR EXEMPT FROM LISTING ON TSCA INVENTORY.

UNITED STATES INVENTORY (TSCA 8B): ALL COMPONENTS ARE LISTED OR EXEMPTED.

STATE REGULATIONS:

CALIFORNIA PROP 65: NO PRODUCTS WERE FOUND.

SECTION 16. OTHER INFORMATION



TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS SUBSIDIARIES ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

*NOTE:

HAZARD DETERMINATION SYSTEM (HDS) RATINGS ARE BASED ON A 0-4 RATING SCALE,

WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS ALTHOUGH THESE RATINGS ARE NOT REQUIRED ON MSDSS UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM. HDS RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED PROGRAM TO RELAY THE MEANINGS OF THIS SCALE.

[Close this window](#)

MSDS

Common Name: TOUGH GUY HYDROGEN PEROXIDE GP CLEANER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 7/5/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 12M180**Manufacturer Model Number(s):**

MSDS Table of Contents

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SAFETY DATA SHEET

GRAINGER(R*) FOR THE ONES WHO GET IT DONE

MANUFACTURED FOR:

W.W. GRAINGER, INC.

100 GRAINGER PKWY.

LAKE FOREST, IL 60045-5201

1-847-535-1000

WWW.GRAINGER.COM

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: TOUGH GUY HYDROGEN PEROXIDE GP CLEANER

PRODUCT USE: HARD SURFACE CLEANER

PRODUCT CODE: 12M180

DATE OF ISSUE: 07/05/11

SUPERSEDES:

EMERGENCY TELEPHONE NUMBERS:

FOR MSDS INFORMATION:

TECHNICAL SERVICES: 1-847-535-5400

FOR MEDICAL EMERGENCY: (800) 983-4582 TOLL FREE

FOR TRANSPORTATION EMERGENCY:

CHEMTREC: (800) 424-9300 - ALL CALLS RECORDED

IN THE DISTRICT OF COLUMBIA: (202) 483-7616

PREPARED BY:

COMPLIANCE SERVICES

1420 SEABOARD INDUSTRIAL BLVD.

ATLANTA, GA 30318

SECTION 2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

WARNING!

CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED.

NOTE:

MSDS DATA PERTAINS TO THE PRODUCT AS DELIVERED IN THE ORIGINAL SHIPPING CONTAINER(S). RISK OF ADVERSE EFFECTS ARE LESSENERED BY FOLLOWING ALL PRESCRIBED SAFETY PRECAUTIONS, INCLUDING THE USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT.

ACUTE EFFECTS:

ROUTES OF ENTRY: DERMAL CONTACT. EYE CONTACT. INHALATION.

EYES:

CAUSES EYE IRRITATION. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING AND ITCHING.

SKIN:

CAUSES SKIN IRRITATION. SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, OR REDDENING.

INHALATION:

AVOID BREATHING VAPORS, SPRAY OR MISTS. OVER-EXPOSURE BY INHALATION MAY CAUSE RESPIRATORY IRRITATION.

INGESTION:

MAY BE HARMFUL IF SWALLOWED. CAN CAUSE GASTROINTESTINAL DISTURBANCES.

CHRONIC EFFECTS:

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. REPEATED OR PROLONGED EXPOSURE TO SPRAY OR MIST MAY PRODUCE RESPIRATORY TRACT IRRITATION LEADING TO FREQUENT ATTACKS OF BRONCHIAL INFECTION.

CARCINOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

PRODUCT/INGREDIENT NAME	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
HYDROGEN PEROXIDE	A3	3				

ADDITIONAL INFORMATION: SEE TOXICOLOGICAL INFORMATION (SECTION 11)

*HAZARD DETERMINATION SYSTEM (HDS):

HEALTH 2
FLAMMABILITY 0
REACTIVITY 0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



NAME OF HAZARDOUS INGREDIENTS	CAS NUMBER	% BY WEIGHT
HYDROGEN PEROXIDE; PEROXIDE	7722-84-1	1 - 10
DIPROPYLENE GLYCOL N-PROPYL ETHER; 2- PROPANOL, 1-(1-METHYL-2-PROPOXYETHOXY)	29911-27-1	1 - 5

SECTION 4. FIRST AID MEASURES



EYE CONTACT:

CHECK FOR AND REMOVE ANY CONTACT LENSES. IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION OCCURS.

INHALATION:

MOVE EXPOSED PERSON TO FRESH AIR. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INGESTION:

WASH OUT MOUTH WITH WATER. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF AFFECTED PERSON IS CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5. FIRE FIGHTING MEASURES



FLASH POINT: NONE.

FLAMMABLE LIMITS: NOT DETERMINED.

FLAMMABILITY: NON-COMBUSTIBLE.

FIRE HAZARD:

IN A FIRE OR IF HEATED, A PRESSURE INCREASE WILL OCCUR AND THE CONTAINER MAY BURST. MAY EMIT TOXIC FUMES UNDER FIRE CONDITIONS.

FIRE-FIGHTING PROCEDURES:

USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE.

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

2
0

SECTION 6. ACCIDENTAL RELEASE MEASURES



SPILL CLEAN UP:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. DILUTE WITH WATER AND MOP UP IF WATER-SOLUBLE. ALTERNATIVELY, OR IF WATER-INSOLUBLE, ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER.

SECTION 7. HANDLING AND STORAGE



HANDLING:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). AVOID CONTACT WITH EYES, SKIN AND CLOTHING. DO NOT INGEST. AVOID BREATHING VAPOR OR MIST. WASH THOROUGHLY AFTER HANDLING. DO NOT REUSE CONTAINER.

STORAGE:

STORE IN ORIGINAL CONTAINER PROTECTED FROM DIRECT SUNLIGHT IN A DRY, COOL AND WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10) AND FOOD AND DRINK. STORE BELOW 120 DEG. F (49 DEG. C). AVOID CONTACT WITH ORGANIC MATERIALS. EXPOSURE TO SUNLIGHT ACCELERATES DECOMPOSITION. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE. CONTAINERS THAT HAVE BEEN OPENED MUST BE CAREFULLY RESEALED AND KEPT UPRIGHT TO PREVENT LEAKAGE. DO NOT STORE IN UNLABELED CONTAINERS. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



PRODUCT NAME

EXPOSURE LIMITS

HYDROGEN PEROXIDE; PEROXIDE

ACGIH TLV (UNITED STATES, 2/2010).

TWA: 1 PPM 8 HOUR(S).

TWA: 1.4 MG/M3 8 HOUR(S).

OSHA PEL 1989 (UNITED STATES, 3/1989).

TWA: 1 PPM 8 HOUR(S).

TWA: 1.4 MG/M3 8 HOUR(S).

NIOSH REL (UNITED STATES, 6/2009).

TWA: 1 PPM 10 HOUR(S).

TWA: 1.4 MG/M3 10 HOUR(S).

OSHA PEL (UNITED STATES, 11/2006).

TWA: 1 PPM 8 HOUR(S).

TWA: 1.4 MG/M3 8 HOUR(S).

PERSONAL PROTECTIVE EQUIPMENT (PPE):

SAFETY GLASSES

GLOVES

EYES: SAFETY GLASSES.

BODY:

FOR PROLONGED OR REPEATED HANDLING, USE THE FOLLOWING TYPE OF GLOVES:

NEOPRENE GLOVES. NITRILE GLOVES. RUBBER GLOVES.

RESPIRATORY:

AVOID BREATHING VAPORS, SPRAY OR MISTS. PROVIDE EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP THE AIRBORNE CONCENTRATIONS OF VAPORS BELOW THEIR RESPECTIVE OCCUPATIONAL EXPOSURE LIMITS.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID. (THIN LIQUID)

pH: 2.5 TO 3.5

BOILING POINT: NOT AVAILABLE.

SPECIFIC GRAVITY: 1.03

SOLUBILITY:

SOLUBLE IN THE FOLLOWING MATERIALS: COLD WATER AND HOT WATER.

COLOR: CLEAR. GREEN.

ODOR: PLEASANT. (LEMONGRASS)

VAPOR PRESSURE: NOT DETERMINED.

VAPOR DENSITY: NOT DETERMINED.

EVAPORATION RATE: 1 (WATER = 1)

VOC (CONSUMER): 0 G/L

SECTION 10. STABILITY AND REACTIVITY

STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY:

KEEP AWAY FROM HEAT, SPARKS AND FLAME. SLIGHTLY REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS:

OXIDIZING MATERIALS, REDUCING MATERIALS, ORGANIC MATERIALS AND ALKALIS.

HAZARDOUS POLYMERIZATION:

UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS:

DECOMPOSES ON HEATING. CARBON OXIDES (CO, CO2)

SECTION 11. TOXICOLOGICAL INFORMATION**ACUTE TOXICITY:**

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
HYDROGEN PEROXIDE	LD50 ORAL	RAT	1232 MG/KG	
1-(1-METHYL-2-	LD50 DERMAL	RABBIT	>2000 MG/KG	

PROPOXYETHOXY)	LD50 DERMAL	RABBIT	5660 (MICRO) L/KG
PROPAN-2-OL	LD50 ORAL	RAT	>2000 MG/KG
	LD50 ORAL	RAT	>1500 MG/KG
	LD50 ORAL	RAT	1620 (MICRO) L/KG

SECTION 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS: NOT AVAILABLE.

AQUATIC ECOTOXICITY:

PRODUCT/INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
HYDROGEN PEROXIDE		ACUTE EC50 24 PPM FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA - <24 HOURS	48 HOURS
		ACUTE EC50 2320 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA - NEONATE - <24 HOURS	48 HOURS
		ACUTE LC50 16.4 MG/L	FISH	96 HOURS
		ACUTE LC50 26.7 PPM FRESH WATER	FISH - BLUEGILL - LEPOMIS MACROCHIRUS - JUVENILE (FLEDGLING, HATCHLING, WEANLING)	96 HOURS
		ACUTE LC50 22 PPM FRESH WATER	FISH - RAINBOW TROUT, DONALDSON TROUT - ONCORHYNCHUS MYKISS - JUVENILE (FLEDGLING, HATCHLING, WEANLING)	96 HOURS

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE INFORMATION:

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES FOR ADDITIONAL INFORMATION.

WASTE STREAM:

CODE: (NONE.)

CLASSIFICATION: (NON-HAZARDOUS WASTE)

SECTION 14. TRANSPORT INFORMATION

REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PG*	LABEL
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DOT CLASSIFICATION NOT REGULATED. NONE.

NOTE:

DOT CLASSIFICATION APPLIES TO MOST PACKAGE SIZES. FOR SPECIFIC CONTAINER SIZE CLASSIFICATIONS OR FOR SIZE EXCEPTIONS, REFER TO THE BILL OF LADING WITH YOUR SHIPMENT.

PG*: PACKING GROUP

SECTION 15. REGULATORY INFORMATION



U.S. FEDERAL REGULATIONS:

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:
NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 307: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 311: NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES: NO PRODUCTS WERE FOUND.

ALL COMPONENTS OF THIS PRODUCT ARE LISTED OR EXEMPT FROM LISTING ON TSCA INVENTORY.

UNITED STATES INVENTORY (TSCA 8B): ALL COMPONENTS ARE LISTED OR EXEMPTED.

STATE REGULATIONS:

CALIFORNIA PROP 65: NO PRODUCTS WERE FOUND.

SECTION 16. OTHER INFORMATION



TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS SUBSIDIARIES ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

*NOTE:

HAZARD DETERMINATION SYSTEM (HDS) RATINGS ARE BASED ON A 0-4 RATING SCALE, WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS ALTHOUGH THESE RATINGS ARE NOT REQUIRED ON MSDSS UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM. HDS RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED PROGRAM TO RELAY THE MEANINGS OF THIS SCALE.

[Close this window](#)

MSDS

Common Name: TOUGH GUY HEAVY-DUTY NON-BUTYL DEGREASER, 12M186**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 7/5/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 12M186**Manufacturer Model Number(s):**

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GRAINGER (R*)

FOR THE ONES WHO GET IT DONE

MATERIAL SAFETY DATA SHEET

SAFETY DATA SHEET

MANUFACTURED FOR:

W.W. GRAINGER, INC.

100 GRAINGER PKWY.

LAKE FOREST, IL 60045-5201

1-847-535-1000

WWW.GRAINGER.COM

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: TOUGH GUY HEAVY-DUTY NON-BUTYL DEGREASER

PRODUCT USE: GENERAL PURPOSE DEGREASER

PRODUCT CODE: 12M186

PREPARED BY:
COMPLIANCE SERVICES
1420 SEABOARD INDUSTRIAL BLVD.
ATLANTA, GA 30318

EMERGENCY TELEPHONE NUMBERS:

FOR MSDS INFORMATION:
TECHNICAL SERVICES: 1-847-535-5400

FOR MEDICAL EMERGENCY: (800) 983-4582 TOLL FREE

FOR TRANSPORTATION EMERGENCY, :
CHEMTREC: (800) 424-9300 - ALL CALLS RECORDED
IN THE DISTRICT OF COLUMBIA: (202) 483-7616

DATE OF ISSUE: 07/05/11

SUPERSEDES:

SECTION 2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

WARNING!

CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED.

NOTE:
MSDS DATA PERTAINS TO THE PRODUCT AS DELIVERED IN THE ORIGINAL SHIPPING CONTAINER(S). RISK OF ADVERSE EFFECTS ARE LESSENERED BY FOLLOWING ALL PRESCRIBED SAFETY PRECAUTIONS, INCLUDING THE USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT.

ROUTES OF ENTRY: DERMAL CONTACT. EYE CONTACT.

ACUTE EFFECTS:

EYES:
CAUSES EYE IRRITATION. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING AND ITCHING.

SKIN:
CAUSES SKIN IRRITATION. SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, OR REDDENING.

INHALATION:
OVER-EXPOSURE BY INHALATION MAY CAUSE RESPIRATORY IRRITATION. CAN CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

INGESTION: MAY BE HARMFUL IF SWALLOWED. MAY IRRITATE DIGESTIVE TRACT.

CHRONIC EFFECTS:

CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS:
KIDNEYS, LIVER, UPPER RESPIRATORY TRACT, EYES, CENTRAL NERVOUS SYSTEM (CNS).

CARCINOGENICITY:
INGREDIENTS: NOT LISTED AS CARCINOGEN BY OSHA, NTP OR IARC.

PRODUCT/INGREDIENT NAME: NOT AVAILABLE.

ADDITIONAL INFORMATION: SEE TOXICOLOGICAL INFORMATION (SECTION 11)

*HAZARD DETERMINATION SYSTEM (HDS):

HEALTH 1
FLAMMABILITY 0
REACTIVITY 0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



NAME OF HAZARDOUS INGREDIENTS	CAS NUMBER	% BY WEIGHT
SODIUM SILICATE; WATER GLASS	1344-09-8	1 - 5
DIPROPYLENE GLYCOL METHYL ETHER; DIPROPYLENE GLYCOL MONOMETHYL ETHER	34590-94-8	1 - 5
NONYLPHENOXY POLY(ETHYLENEOXY) ETHANOL - NPE; POLY(OXY-1,2- ETHANEDIYL) ALPHA-(NONYLPHENYL) - OMEGA-HYDROXY	9016-45-9	<3
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE; ETHYLENEDIAMINE TETRAACETIC ACID; TETRASODIUM SALT	64-02-8	<3

SECTION 4. FIRST AID MEASURES



EYE CONTACT:

CHECK FOR AND REMOVE ANY CONTACT LENSES. IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INHALATION:

IF INHALED, REMOVE TO FRESH AIR. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF AFFECTED PERSON IS CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5. FIRE FIGHTING MEASURES



FLASH POINT: NOT APPLICABLE

FLAMMABLE LIMITS: NOT APPLICABLE

FLAMMABILITY: NON-COMBUSTIBLE.

FIRE HAZARD:

IN A FIRE OR IF HEATED, A PRESSURE INCREASE WILL OCCUR AND THE CONTAINER MAY BURST.

FIRE-FIGHTING PROCEDURES:

USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE.

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

1
0
0

SECTION 6. ACCIDENTAL RELEASE MEASURES**SPILL CLEAN UP:**

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). DILUTE WITH WATER AND MOP UP, OR ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER. FINISH CLEANING BY SPREADING WATER ON THE CONTAMINATED SURFACE AND DISPOSE OF ACCORDING TO LOCAL AND REGIONAL AUTHORITY REQUIREMENTS.

SECTION 7. HANDLING AND STORAGE**HANDLING:**

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). DO NOT GET IN EYES OR ON SKIN OR CLOTHING. DO NOT BREATHE VAPOR OR MIST. DO NOT INGEST. WASH THOROUGHLY AFTER HANDLING. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS. DO NOT REUSE CONTAINER.

STORAGE:

STORE IN ORIGINAL CONTAINER PROTECTED FROM DIRECT SUNLIGHT IN A DRY, COOL AND WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10) AND FOOD AND DRINK. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE. CONTAINERS THAT HAVE BEEN OPENED MUST BE CAREFULLY RESEALED AND KEPT UPRIGHT TO PREVENT LEAKAGE. DO NOT STORE IN UNLABELED CONTAINERS. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PRODUCT NAME	EXPOSURE LIMITS
SODIUM SILICATE; WATER GLASS	SUPPLIER SUGGESTED (UNITED STATES). CEIL: 2 MG/M3
DIPROPYLENE GLYCOL METHYL ETHER; DIPROPYLENE GLYCOL MONOMETHYL ETHER	ACGIH TLV (UNITED STATES, 1/2009). ABSORBED THROUGH SKIN. TWA: 100 PPM 8 HOUR(S). TWA: 606 MG/M3 8 HOUR(S). STEL: 150 PPM 15 MINUTE(S). STEL: 909 MG/M3 15 MINUTE(S). OSHA PEL 1989 (UNITED STATES, 3/1989). ABSORBED THROUGH SKIN. TWA: 100 PPM 8 HOUR(S). TWA: 600 MG/M3 8 HOUR(S). STEL: 150 PPM 15 MINUTE(S).

STEL: 900 MG/M3 15 MINUTE(S).

NIOSH REL (UNITED STATES, 6/2009).

ABSORBED THROUGH SKIN.

TWA: 100 PPM 10 HOUR(S).

TWA: 600 MG/M3 10 HOUR(S).

STEL: 150 PPM 15 MINUTE(S).

STEL: 900 MG/M3 15 MINUTE(S).

OSHA PEL (UNITED STATES, 11/2006).

ABSORBED THROUGH SKIN.

TWA: 100 PPM 8 HOUR(S).

TWA: 600 MG/M3 8 HOUR(S).

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYES: SAFETY GLASSES.

BODY:

FOR PROLONGED OR REPEATED HANDLING, USE GLOVES. NITRILE GLOVES.

RUBBER GLOVES. NEOPRENE GLOVES.

RESPIRATORY:

USE WITH ADEQUATE VENTILATION. PROVIDE EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP THE AIRBORNE CONCENTRATIONS OF VAPORS BELOW THEIR RESPECTIVE OCCUPATIONAL EXPOSURE LIMITS.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID.

pH: 11.5 - 12.5

BOILING POINT: 104.44 DEG. C (220 DEG. F)

SPECIFIC GRAVITY: 1.04

SOLUBILITY:

EASILY SOLUBLE IN THE FOLLOWING MATERIALS: COLD WATER AND HOT WATER.

COLOR: CLEAR. GREEN.

ODOR: MILD.

VAPOR PRESSURE: NOT DETERMINED.

VAPOR DENSITY: NOT DETERMINED.

EVAPORATION RATE: 1 COMPARED WITH WATER

VOC (CONSUMER): 4.87%

SECTION 10. STABILITY AND REACTIVITY



STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY:

SLIGHTLY REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS:
OXIDIZING MATERIALS AND ACIDS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES (CO, CO2)

SECTION 11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
SODIUM SILICATE	LD50 ORAL	RAT	3300 MG/KG	
(2-METHOXYMETHYLETHOXY) PROPANOL	LD50 DERMAL	RABBIT	10 ML/KG	
	LD50 DERMAL	RABBIT	13000 MG/KG	
	LD50 ORAL	RAT	5.5 ML/KG	
	LD50 ORAL	RAT	5220 MG/KG	
	LD50 ORAL	RAT	5400 (MICRO) L/KG	
NONYLPHENOXYPOLY (ETHYLENEOXY) ETHANO	LD50 DERMAL	RABBIT	2000 MG/KG	
	LD50 ORAL	RAT	3310 MG/KG	
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE	LD50 ORAL	RAT	4100 MG/KG	

SECTION 12. ECOLOGICAL INFORMATION



ENVIRONMENTAL EFFECTS: NOT AVAILABLE.

AQUATIC ECOTOXICITY: NOT AVAILABLE.

SECTION 13. DISPOSAL CONSIDERATIONS



WASTE INFORMATION:

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL
ENVIRONMENTAL CONTROL REGULATIONS. CONSULT YOUR LOCAL OR REGIONAL
AUTHORITIES FOR ADDITIONAL INFORMATION.

WASTE STREAM: NON-HAZARDOUS WASTE

SECTION 14. TRANSPORT INFORMATION



REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PG*	LABEL
DOT CLASSIFICATION	NOT REGULATED.	NONE.			

NOTE:

DOT CLASSIFICATION APPLIES TO MOST PACKAGE SIZES. FOR SPECIFIC CONTAINER

SIZE CLASSIFICATIONS OR FOR SIZE EXCEPTIONS, REFER TO THE BILL OF LADING WITH YOUR SHIPMENT.

PG*: PACKING GROUP

SECTION 15. REGULATORY INFORMATION



U.S. FEDERAL REGULATIONS:

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:
NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 307: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 311: NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES:
NO PRODUCTS WERE FOUND.

ALL COMPONENTS OF THIS PRODUCT ARE LISTED OR EXEMPT FROM LISTING ON TSCA INVENTORY.

TSCA 4(A) FINAL TEST RULES: (2-METHOXYMETHYLETHOXY)PROPANOL

TSCA 8(A) PAIR: (2-METHOXYMETHYLETHOXY)PROPANOL

UNITED STATES INVENTORY (TSCA 8B): NOT DETERMINED.

TSCA 12(B) ONE-TIME EXPORT: (2-METHOXYMETHYLETHOXY)PROPANOL

STATE REGULATIONS:
CALIFORNIA PROP 65: NO PRODUCTS WERE FOUND.

SECTION 16. OTHER INFORMATION



TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS SUBSIDIARIES ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

*NOTE:

HAZARD DETERMINATION SYSTEM (HDS) RATINGS ARE BASED ON A 0-4 RATING SCALE, WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS ALTHOUGH THESE RATINGS ARE NOT REQUIRED ON MSDSS UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM. HDS RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED PROGRAM TO RELAY THE MEANINGS OF THIS SCALE.

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MSDS

Common Name: TOUGH GUY ENVIRO GLASS CLEANER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 7/7/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 12M187**Manufacturer Model Number(s):**

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GRAINGER (R*)

FOR THE ONES WHO GET IT DONE

MATERIAL SAFETY DATA SHEET

SAFETY DATA SHEET

MANUFACTURED FOR:

W.W. GRAINGER, INC.

100 GRAINGER PKWY.

LAKE FOREST, IL 60045-5201

1-847-535-1000

WWW.GRAINGER.COM

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: TOUGH GUY ENVIRO GLASS CLEANER

PRODUCT USE: GLASS CLEANER.

PRODUCT CODE: 12M187

DATE OF ISSUE: 07/07/11

SUPERSEDES:

EMERGENCY TELEPHONE NUMBERS:

FOR MSDS INFORMATION:

TECHNICAL SERVICES: 1-847-535-5400

FOR MEDICAL EMERGENCY: (800) 983-4582 TOLL FREE

FOR TRANSPORTATION EMERGENCY:

CHEMTREC: (800) 424-9300 - ALL CALLS RECORDED

IN THE DISTRICT OF COLUMBIA: (202) 483-7616

PREPARED BY:

COMPLIANCE SERVICES

1420 SEABOARD INDUSTRIAL BLVD.

ATLANTA, GA 30318

SECTION 2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

WARNING!

FLAMMABLE. CAUSES EYE IRRITATION.

*HAZARD DETERMINATION SYSTEM (HDS):

HEALTH 1

FLAMMABILITY 2

REACTIVITY 0

NOTE:

MSDS DATA PERTAINS TO THE PRODUCT AS DELIVERED IN THE ORIGINAL SHIPPING CONTAINER(S). RISK OF ADVERSE EFFECTS ARE LESSENER BY FOLLOWING ALL PRESCRIBED SAFETY PRECAUTIONS, INCLUDING THE USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT.

ACUTE EFFECTS:

ROUTES OF ENTRY: DERMAL CONTACT. EYE CONTACT. INHALATION.

EYES:

CAUSES EYE IRRITATION. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING AND ITCHING.

SKIN:

MAY CAUSE SKIN IRRITATION. SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, OR REDDENING.

INHALATION: OVER-EXPOSURE BY INHALATION MAY CAUSE RESPIRATORY IRRITATION.

INGESTION:

MAY BE HARMFUL IF SWALLOWED. INGESTION MAY CAUSE NAUSEA, WEAKNESS AND CENTRAL NERVOUS SYSTEM EFFECTS.

CHRONIC EFFECTS:

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. OVEREXPOSURE OF THIS PRODUCT BY INHALATION OR ABSORPTION CAN PRODUCE CENTRAL NERVOUS SYSTEM DEPRESSION RESULTING IN HEADACHE, NAUSEA AND/OR

DIZZINESS.

CARCINOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

PRODUCT/INGREDIENT NAME ACGIH IARC EPA NIOSH NTP OSHA

NONE.

ADDITIONAL INFORMATION: SEE TOXICOLOGICAL INFORMATION (SECTION 11)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



NAME OF HAZARDOUS INGREDIENTS	CAS NUMBER	% BY WEIGHT
ETHANOL; ETHYL ALCOHOL; GRAIN ALCOHOL	64-17-5	5 - 15
PROPYLENE GLYCOL n-BUTYL ETHER; 1-BUTOXY-2-PROPANOL	5131-66-8	1 - 10
SODIUM XYLENE SULFONATE	1300-72-7	1 - 5

SECTION 4. FIRST AID MEASURES



EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. CHECK FOR AND REMOVE ANY CONTACT LENSES. CONTINUE TO RINSE FOR AT LEAST 10 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

FLUSH AFFECTED SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INHALATION:

MOVE EXPOSED PERSON TO FRESH AIR. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF AFFECTED PERSON IS CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5. FIRE FIGHTING MEASURES



FLASH POINT:

CLOSED CUP: 32.22 DEG. C (90 DEG. F) (TAGLIABUE.)

FLAMMABLE LIMITS: NOT AVAILABLE.

FLAMMABILITY: FLAMMABLE.

FIRE HAZARD:

FLAMMABLE LIQUID. IN A FIRE OR IF HEATED, A PRESSURE INCREASE WILL OCCUR AND THE CONTAINER MAY BURST, WITH THE RISK OF A SUBSEQUENT EXPLOSION. RUNOFF TO SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.

FIRE-FIGHTING PROCEDURES:

USE DRY CHEMICAL, CO₂, WATER SPRAY (FOG) OR FOAM.

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

1
2
0

SECTION 6. ACCIDENTAL RELEASE MEASURES**SPILL CLEAN UP:**

ELIMINATE ALL IGNITION SOURCES. PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. DILUTE WITH WATER AND MOP UP IF WATER-SOLUBLE OR ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER.

SECTION 7. HANDLING AND STORAGE**HANDLING:**

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME OR ANY OTHER IGNITION SOURCE. DO NOT GET IN EYES OR ON SKIN OR CLOTHING. AVOID BREATHING VAPORS, SPRAY OR MISTS. DO NOT INGEST. WASH THOROUGHLY AFTER HANDLING. DO NOT REUSE CONTAINER.

STORAGE:

STORE IN ORIGINAL CONTAINER PROTECTED FROM DIRECT SUNLIGHT IN A DRY, COOL AND WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10) AND FOOD AND DRINK. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE.

STORE BETWEEN THE FOLLOWING TEMPERATURES:

40 DEG. F - 120 DEG. F (4.4 DEG. C - 49 DEG. C). DO NOT STORE IN UNLABELED CONTAINERS. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**PRODUCT NAME****EXPOSURE LIMITS**

ETHANOL; ETHYL ALCOHOL;
GRAIN ALCOHOL

NIOSH REL (UNITED STATES, 6/2009).
TWA: 1000 PPM 10 HOUR(S).
TWA: 1900 MG/M3 10 HOUR(S).

OSHA PEL (UNITED STATES, 11/2006).
TWA: 1000 PPM 8 HOUR(S).
TWA: 1900 MG/M3 8 HOUR(S).

ACGIH TLV (UNITED STATES, 1/2009).
STEL: 1000 PPM 15 MINUTE(S).

OSHA PEL 1989 (UNITED STATES, 3/1989).
TWA: 1000 PPM 8 HOUR(S).
TWA: 1900 MG/M3 8 HOUR(S).

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYES: SAFETY GLASSES.

BODY:

RECOMMENDED: RUBBER GLOVES. NEOPRENE GLOVES. NITRILE GLOVES.

RESPIRATORY:

USE WITH ADEQUATE VENTILATION. A RESPIRATOR IS NOT NEEDED UNDER NORMAL AND INTENDED CONDITIONS OF PRODUCT USE.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID.

pH:

(CONC.) 10.4 - 11.0

pH (1:32) = 7.5 - 8.0

BOILING POINT: APPROX. 100 DEG. C (212 DEG. F)

SPECIFIC GRAVITY: 0.98

SOLUBILITY:

EASILY SOLUBLE IN THE FOLLOWING MATERIALS: COLD WATER AND HOT WATER.

COLOR: LIGHT BLUE. CLEAR.

ODOR: MILD. BUTYL

VAPOR PRESSURE: NOT DETERMINED.

VAPOR DENSITY: NOT DETERMINED.

EVAPORATION RATE: 1 (WATER = 1)

VOC (CONSUMER): 19%

SECTION 10. STABILITY AND REACTIVITY



STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY: KEEP AWAY FROM HEAT, SPARKS AND FLAME.

SLIGHTLY REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS:
OXIDIZING MATERIALS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON OXIDES (CO, CO₂), SULFUR OXIDES (SO₂, SO₃ ETC.)

SECTION 11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY: NOT AVAILABLE.

SECTION 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS: NOT AVAILABLE.

AQUATIC ECOTOXICITY:

PRODUCT/INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
ETHANOL		ACUTE EC50: >100 PPM FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA - <24 HOURS	48 HOURS
		ACUTE EC50: 2000 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA	48 HOURS
		ACUTE LC50: 5680 MG/L FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA - NEONATE - <24 HOURS	48 HOURS
		ACUTE LC50: 13 ML/L FRESH WATER	FISH - RAINBOW TROUT, DONALDSON TROUT - ONCORHYNCHUS MYKISS - 0.8 G	96 HOURS
		ACUTE LC50: 13480000 (MICRO)G/L FRESH WATER	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - JUVENILE (FLEDGLING, HATCHLING, WEANLING) - 4 TO 8 WEEKS - 1.1 TO 3.1 CM	96 HOURS
		ACUTE LC50: 10000000 TO 11500000 (MICRO)G/L MARINE WATER	FISH - BLEAK - ALBURNUS ALBURNUS - 8 CM	96 HOURS
		ACUTE LC50: 5577000 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - CERIODAPHNIA DUBIA - NEONATE	48 HOURS
		ACUTE LC50: 3715000 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - CERIODAPHNIA DUBIA - NEONATE	48 HOURS
		ACUTE LC50: 42000 (MICRO)G/L FRESH WATER	FISH - RAINBOW TROUT, DONALDSON TROUT - ONCORHYNCHUS MYKISS	4 DAYS
		ACUTE LC50:	CRUSTACEANS - BRINE	48 HOURS

25500
(MICRO)G/L
MARINE WATER

SHRIMP - ARTEMIA
FRANCHISCANA
- LARVAE

CHRONIC NOEC:
<6.3 G/L
FRESH WATER

DAPHNIA -
WATER FLEA -
DAPHNIA MAGNA

48 HOURS

SECTION 13. DISPOSAL CONSIDERATIONS



WASTE INFORMATION:

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES FOR ADDITIONAL INFORMATION.

WASTE STREAM:

CODE: D001

CLASSIFICATION: - (HAZARDOUS WASTE)

ORIGIN: - (RCRA WASTE.)

SECTION 14. TRANSPORT INFORMATION



REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PG*	LABEL
DOT CLASSIFICATION	NOT REGULATED.	NOT A DOT CONTROLLED MATERIAL (UNITED STATES).			

NOTE:

DOT CLASSIFICATION APPLIES TO MOST PACKAGE SIZES. FOR SPECIFIC CONTAINER SIZE CLASSIFICATIONS OR FOR SIZE EXCEPTIONS, REFER TO THE BILL OF LADING WITH YOUR SHIPMENT.

PG*: PACKING GROUP

SECTION 15. REGULATORY INFORMATION



U.S. FEDERAL REGULATIONS:

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:

PRODUCT NAME: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 307: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 311: NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES:
NO PRODUCTS WERE FOUND.

ALL COMPONENTS OF THIS PRODUCT ARE LISTED OR EXEMPT FROM LISTING ON TSCA INVENTORY.

UNITED STATES INVENTORY (TSCA 8B): NOT DETERMINED.

STATE REGULATIONS CALIFORNIA PROP 65: NO PRODUCTS WERE FOUND.

SECTION 16. OTHER INFORMATION

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS SUBSIDIARIES ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

***NOTE:**

HAZARD DETERMINATION SYSTEM (HDS) RATINGS ARE BASED ON A 0-4 RATING SCALE, WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS ALTHOUGH THESE RATINGS ARE NOT REQUIRED ON MSDSS UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM. HDS RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED PROGRAM TO RELAY THE MEANINGS OF THIS SCALE.

[Close this window](#)

MSDS

Common Name: TOUGH GUY LEMON QUAT 64 DISINFECTANT, 12M189**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 7/7/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 12M189**Manufacturer Model Number(s):**

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GRAINGER (R*)

FOR THE ONES WHO GET IT DONE

MATERIAL SAFETY DATA SHEET

SAFETY DATA SHEET

MANUFACTURED FOR:

W.W. GRAINGER, INC.

100 GRAINGER PKWY.

LAKE FOREST, IL 60045-5201

1-847-535-1000

WWW.GRAINGER.COM

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: TOUGH GUY LEMON QUAT 64 DISINFECTANT

PRODUCT USE: CLEANER. DISINFECTANT.

PRODUCT CODE: 12M189

DATE OF ISSUE: 07/07/11

SUPERSEDES:

EPA ID NO.: 1839-101-84533

EMERGENCY TELEPHONE NUMBERS:

FOR MSDS INFORMATION:

TECHNICAL SERVICES: 1-847-535-5400

FOR MEDICAL EMERGENCY: (800) 983-4582 TOLL FREE

FOR TRANSPORTATION EMERGENCY:

CHEMTREC: (800) 424-9300 - ALL CALLS RECORDED

IN THE DISTRICT OF COLUMBIA: (202) 483-7616

PREPARED BY:

COMPLIANCE SERVICES

1420 SEABOARD INDUSTRIAL BLVD.

ATLANTA, GA 30318

SECTION 2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

DANGER!

CAUSES EYE AND SKIN BURNS. HARMFUL IF SWALLOWED.

*HAZARD DETERMINATION SYSTEM (HDS):

HEALTH 3

FLAMMABILITY 0

REACTIVITY 0

NOTE:

MSDS DATA PERTAINS TO THE PRODUCT AS DELIVERED IN THE ORIGINAL SHIPPING CONTAINER(S). RISK OF ADVERSE EFFECTS ARE LESSENED BY FOLLOWING ALL PRESCRIBED SAFETY PRECAUTIONS, INCLUDING THE USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT.

ACUTE EFFECTS:

ROUTES OF ENTRY: DERMAL CONTACT. EYE CONTACT.

EYES:

CORROSIVE TO EYES. DIRECT CONTACT WITH THE EYES CAN CAUSE IRREVERSIBLE DAMAGE, INCLUDING BLINDNESS.

SKIN:

CAUSES SKIN BURNS. IRRITATING TO SKIN. SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, REDDENING OR, OCCASIONALLY, BLISTERING.

INHALATION: OVER-EXPOSURE BY INHALATION MAY CAUSE RESPIRATORY IRRITATION.

INGESTION:

HARMFUL IF SWALLOWED. MAY CAUSE BURNS TO MOUTH, THROAT AND STOMACH.

CHRONIC EFFECTS: NO KNOWN CHRONIC EFFECTS FROM EXPOSURE.

CARCINOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

PRODUCT/INGREDIENT NAME: NOT AVAILABLE.

ADDITIONAL INFORMATION: SEE TOXICOLOGICAL INFORMATION (SECTION 11)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



NAME OF HAZARDOUS INGREDIENTS	CAS NUMBER	% BY WEIGHT
NONYLPHENOXY POLY(ETHYLENEOXY) ETHANOL - NPE; POLY(OXY-1,2-ETHANEDIYL) ALPHA-(NONYLPHENYL)-OMEGA-HYDROXY	9016-45-9	1 - 10
TETRAPOTASSIUM PYROPHOSPHATE; TKPP; DIPHOSPHORIC ACID, TETRAPOTASSIUM SALT	7320-34-5	1 - 10
SODIUM METASILICATE; SILICIC ACID (H ₂ -Si-O ₃) DISODIUM SALT; WATER GLASS	6834-92-0	<5
QUATERNARY AMMONIUM CHLORIDES; BLEND OF ALKYL DIMETHYLBENZYL AMMONIUM CHLORIDES, ALKYL DIMETHYL ETHYLBENZYL AMMONIUM CHLORIDES, AND ETHANOL	85409-23-0 68391-01-5	<5
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE; ETHYLENEDIAMINE TETRAACETIC ACID; TETRASODIUM SALT	64-02-8	<5

SECTION 4. FIRST AID MEASURES



EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. CHECK FOR AND REMOVE ANY CONTACT LENSES. CONTINUE TO RINSE FOR AT LEAST 10 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

FLUSH AFFECTED SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INHALATION:

MOVE EXPOSED PERSON TO FRESH AIR. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. IF VOMITING OCCURS, THE HEAD SHOULD BE KEPT LOW SO THAT VOMIT DOES NOT ENTER THE LUNGS. IF AFFECTED PERSON IS CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5. FIRE FIGHTING MEASURES



FLASH POINT: NONE.

FLAMMABLE LIMITS: NOT APPLICABLE

FLAMMABILITY: NON-COMBUSTIBLE.

FIRE HAZARD:

IN A FIRE OR IF HEATED, A PRESSURE INCREASE WILL OCCUR AND THE CONTAINER MAY BURST.

FIRE-FIGHTING PROCEDURES:

USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE.

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

3
0
0

SECTION 6. ACCIDENTAL RELEASE MEASURES



SPILL CLEAN UP:

STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. DILUTE WITH WATER AND MOP UP IF WATER-SOLUBLE OR ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER. DISPOSE OF VIA A LICENSED WASTE DISPOSAL CONTRACTOR.

SECTION 7. HANDLING AND STORAGE



HANDLING:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). DO NOT GET IN EYES OR ON SKIN OR CLOTHING. DO NOT INGEST. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS. DO NOT REUSE CONTAINER. WASH THOROUGHLY AFTER HANDLING. OBSERVE LABEL PRECAUTIONS.

STORAGE:

STORE IN A DRY, COOL AND WELL-VENTILATED AREA. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE. DO NOT STORE IN UNLABELED CONTAINERS. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



PRODUCT NAME

EXPOSURE LIMITS

SODIUM METASILICATE; SILICIC
ACID (H₂-Si-O₃) DISODIUM SALT;
WATER GLASS

SUPPLIER SUGGESTED (UNITED STATES).
CEIL: 2 MG/M³

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYES: CHEMICAL SPLASH GOGGLES OR FACE SHIELD.

BODY: WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT.

RECOMMENDED:

RUBBER GLOVES. WEAR APRON OR COVERALL IF THERE IS A RISK OF EXPOSURE TO SPLASHES.

RESPIRATORY:

USE WITH ADEQUATE VENTILATION. NO SPECIAL PROTECTION IS REQUIRED.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID.

COLOR: BLUE. GREEN. CLEAR.

pH: 12.5 - 13.5

ODOR: LEMON-LIKE. CITRUS

BOILING POINT: 101.67 DEG. C (215 DEG. F)

VAPOR PRESSURE: NOT DETERMINED.

SPECIFIC GRAVITY: 1.08

VAPOR DENSITY: NOT DETERMINED.

SOLUBILITY:

EASILY SOLUBLE IN THE FOLLOWING MATERIALS: COLD WATER AND HOT WATER.

EVAPORATION RATE: 1 (WATER = 1)

VOC (CONSUMER): 4.6 G/L (0.43%)

SECTION 10. STABILITY AND REACTIVITY

STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY:

REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS:
OXIDIZING MATERIALS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS:

AMMONIA, CARBON OXIDES (CO, CO₂), NITROGEN OXIDES (NO, NO₂ ETC.)

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
NONYLPHENOXYPOLY (ETHYLENEOXY)ETHANO	LD50 DERMAL	RABBIT	2000 MG/KG	
	LD50 ORAL	RAT	3310 MG/KG	
DISODIUM METASILICATE	LD50 ORAL	RAT	1153 MG/KG	
	LD50 ORAL	RAT	>1000 MG/KG	
	LD50 ORAL	MOUSE	770 MG/KG	
QUATERNARY AMMONIUM CHLORIDES	LD50 DERMAL	RABBIT	>2000 MG/KG	
	LD50 ORAL	RAT	>500 MG/KG	
TETRASODIUM	LD50 ORAL	RAT	4100 MG/KG	

ETHYLENEDIAMINE
TETRAACETATE

SECTION 12. ECOLOGICAL INFORMATION



ENVIRONMENTAL EFFECTS: NOT AVAILABLE.

AQUATIC ECOTOXICITY:

PRODUCT/INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
QUATERNARY AMMONIUM CHLORIDES	ACUTE EC50:	0.058 MG/L	DAPHNIA	48 HOURS
	ACUTE LC50:	0.52 MG/L	FISH - BLUEGILL	96 HOURS

SECTION 13. DISPOSAL CONSIDERATIONS



WASTE INFORMATION:

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES FOR ADDITIONAL INFORMATION.

WASTE STREAM:

CODE: D002

CLASSIFICATION: (HAZARDOUS WASTE.)

ORIGIN: (RCRA WASTE.)

SECTION 14. TRANSPORT INFORMATION



REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PG *	LABEL
DOT CLASSIFICATION	NOT REGULATED.	NOT A DOT CONTROLLED MATERIAL (UNITED STATES).			

NOTE:

DOT CLASSIFICATION APPLIES TO MOST PACKAGE SIZES. FOR SPECIFIC CONTAINER SIZE CLASSIFICATIONS OR FOR SIZE EXCEPTIONS, REFER TO THE BILL OF LADING WITH YOUR SHIPMENT.

PG*: PACKING GROUP

SECTION 15. REGULATORY INFORMATION



U.S. FEDERAL REGULATIONS:

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:
NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 307: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 311: NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES:
NO PRODUCTS WERE FOUND.

ALL COMPONENTS OF THIS PRODUCT ARE LISTED OR EXEMPT FROM LISTING ON TSCA INVENTORY.

UNITED STATES INVENTORY (TSCA 8B): NOT DETERMINED.

STATE REGULATIONS:
CALIFORNIA PROP 65: NO PRODUCTS WERE FOUND.

SECTION 16. OTHER INFORMATION



TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS SUBSIDIARIES ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

*NOTE:

HAZARD DETERMINATION SYSTEM (HDS) RATINGS ARE BASED ON A 0-4 RATING SCALE, WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS. ALTHOUGH THESE RATINGS ARE NOT REQUIRED ON MSDS UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM. HDS RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED PROGRAM TO RELAY THE MEANINGS OF THIS SCALE.

[Close this window](#)

MSDS

Common Name: TOUGH GUY LEMON QUAT 64 DISINFECTANT, 12M190**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 7/7/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 12M190**Manufacturer Model Number(s):**

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GRAINGER (R*)

FOR THE ONES WHO GET IT DONE

MATERIAL SAFETY DATA SHEET

SAFETY DATA SHEET

MANUFACTURED FOR:

W.W. GRAINGER, INC.

100 GRAINGER PKWY.

LAKE FOREST, IL 60045-5201

1-847-535-1000

WWW.GRAINGER.COM

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: TOUGH GUY LEMON QUAT 64 DISINFECTANT

PRODUCT USE: CLEANER.DISINFECTANT.

PRODUCT CODE: 12M190

DATE OF ISSUE: 07/07/11

SUPERSEDES:

EPA ID NO.: 1839-101-84533

EMERGENCY TELEPHONE NUMBERS:

FOR MSDS INFORMATION:

TECHNICAL SERVICES: 1-847-535-5400

FOR MEDICAL EMERGENCY: (800) 983-4582 TOLL FREE

FOR TRANSPORTATION EMERGENCY:

CHEMTREC: (800) 424-9300 - ALL CALLS RECORDED

IN THE DISTRICT OF COLUMBIA: (202) 483-7616

PREPARED BY:

COMPLIANCE SERVICES

1420 SEABOARD INDUSTRIAL BLVD.

ATLANTA, GA 30318

SECTION 2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

DANGER!

CAUSES EYE AND SKIN BURNS. HARMFUL IF SWALLOWED.

NOTE:

MSDS DATA PERTAINS TO THE PRODUCT AS DELIVERED IN THE ORIGINAL SHIPPING CONTAINER(S). RISK OF ADVERSE EFFECTS ARE LESSENERED BY FOLLOWING ALL PRESCRIBED SAFETY PRECAUTIONS, INCLUDING THE USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT.

ROUTES OF ENTRY: DERMAL CONTACT. EYE CONTACT.

ACUTE EFFECTS:

EYES:

CORROSIVE TO EYES. DIRECT CONTACT WITH THE EYES CAN CAUSE IRREVERSIBLE DAMAGE, INCLUDING BLINDNESS.

SKIN:

CAUSES SKIN BURNS. IRRITATING TO SKIN. SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, REDDENING OR, OCCASIONALLY, BLISTERING.

INHALATION: OVER-EXPOSURE BY INHALATION MAY CAUSE RESPIRATORY IRRITATION.

INGESTION:

HARMFUL IF SWALLOWED. MAY CAUSE BURNS TO MOUTH, THROAT AND STOMACH.

CHRONIC EFFECTS: NO KNOWN CHRONIC EFFECTS FROM EXPOSURE.

CARCINOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

PRODUCT/INGREDIENT NAME: NOT AVAILABLE.

ADDITIONAL INFORMATION: SEE TOXICOLOGICAL INFORMATION (SECTION 11)

*HAZARD DETERMINATION SYSTEM (HDS):

HEALTH 3
FLAMMABILITY 0
REACTIVITY 0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

NAME OF HAZARDOUS INGREDIENTS	CAS NUMBER	% BY WEIGHT
NONYLPHENOXY POLY(ETHYLENEOXY) ETHANOL - NPE; POLY(OXY-1,2- ETHANEDIYL) ALPHA-(NONYLPHENYL) - OMEGA-HYDROXY	9016-45-9	1 - 10
TETRAPOTASSIUM PYROPHOSPHATE; TKPP; DIPHOSPHORIC ACID, TETRAPOTASSIUM SALT	7320-34-5	1 - 10
SODIUM METASILICATE; SILICIC ACID (H ₂ -Si-O ₃) DISODIUM SALT; WATER GLASS	6834-92-0	<5
QUATERNARY AMMONIUM CHLORIDES; BLEND OF ALKYL DIMETHYLBENZYL AMMONIUM CHLORIDES, ALKYL DIMETHYL ETHYLBENZYL AMMONIUM CHLORIDES, AND ETHANOL	85409-23-0 68391-01-5	<5
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE; ETHYLENEDIAMINE TETRAACETIC ACID; TETRASODIUM SALT	64-02-8	<5

SECTION 4. FIRST AID MEASURES

EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. CHECK FOR AND REMOVE ANY CONTACT LENSES. CONTINUE TO RINSE FOR AT LEAST 10 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

FLUSH AFFECTED SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INHALATION:

MOVE EXPOSED PERSON TO FRESH AIR. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. IF VOMITING OCCURS, THE HEAD SHOULD BE KEPT LOW SO THAT VOMIT DOES NOT ENTER THE LUNGS. IF AFFECTED PERSON IS CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.



SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT: NONE.

FLAMMABLE LIMITS: NOT APPLICABLE

FLAMMABILITY: NON-COMBUSTIBLE.

FIRE HAZARD:

IN A FIRE OR IF HEATED, A PRESSURE INCREASE WILL OCCUR AND THE CONTAINER MAY BURST.

FIRE-FIGHTING PROCEDURES:

USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE.

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

3
0
0

SECTION 6. ACCIDENTAL RELEASE MEASURES



SPILL CLEAN UP:

STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. DILUTE WITH WATER AND MOP UP IF WATER-SOLUBLE OR ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER. DISPOSE OF VIA A LICENSED WASTE DISPOSAL CONTRACTOR.

SECTION 7. HANDLING AND STORAGE



HANDLING:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). DO NOT GET IN EYES OR ON SKIN OR CLOTHING. DO NOT INGEST. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS. DO NOT REUSE CONTAINER. WASH THOROUGHLY AFTER HANDLING. OBSERVE LABEL PRECAUTIONS.

STORAGE:

STORE IN A DRY, COOL AND WELL-VENTILATED AREA. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE. DO NOT STORE IN UNLABELED CONTAINERS. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



PRODUCT NAME

EXPOSURE LIMITS

SODIUM METASILICATE;
SILICIC ACID (H₂-Si-O₃)
DISODIUM SALT; WATER GLASS

SUPPLIER SUGGESTED (UNITED STATES).
CEIL: 2 MG/M3

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYES: CHEMICAL SPLASH GOGGLES OR FACE SHIELD.

BODY: WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT.

RECOMMENDED:

RUBBER GLOVES. WEAR APRON OR COVERALL IF THERE IS A RISK OF EXPOSURE TO SPLASHES.

RESPIRATORY:

USE WITH ADEQUATE VENTILATION. NO SPECIAL PROTECTION IS REQUIRED.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID.

pH: 12.5 - 13.5

BOILING POINT: 101.67 DEG. C (215 DEG. F)

SPECIFIC GRAVITY: 1.08

SOLUBILITY:

EASILY SOLUBLE IN THE FOLLOWING MATERIALS: COLD WATER AND HOT WATER.

COLOR: BLUE. GREEN. CLEAR.

ODOR: LEMON-LIKE. CITRUS

VAPOR PRESSURE: NOT DETERMINED.

VAPOR DENSITY: NOT DETERMINED.

EVAPORATION RATE: 1 (WATER = 1)

VOC (CONSUMER): 4.6 G/L (0.43%)

SECTION 10. STABILITY AND REACTIVITY

STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY:

REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS:
OXIDIZING MATERIALS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS:

AMMONIA., CARBON OXIDES (CO, CO2), NITROGEN OXIDES (NO, NO2 ETC.)

SECTION 11. TOXICOLOGICAL INFORMATION**ACUTE TOXICITY:**

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
NONYLPHENOXYPOLY	LD50 DERMAL	RABBIT	2000 MG/KG	
(ETHYLENEOXY)ETHANO	LD50 ORAL	RAT	3310 MG/KG	

DISODIUM	LD50 ORAL	RAT	1153 MG/KG
METASILICATE	LD50 ORAL	RAT	>1000 MG/KG
	LD50 ORAL	MOUSE	770 MG/KG
QUATERNARY AMMONIUM	LD50 DERMAL	RABBIT	>2000 MG/KG
CHLORIDES	LD50 ORAL	RAT	>500 MG/KG
TETRASODIUM	LD50 ORAL	RAT	4100 MG/KG
ETHYLENEDIAMINE			
TETRAACETATE			

SECTION 12. ECOLOGICAL INFORMATION



ENVIRONMENTAL EFFECTS: NOT AVAILABLE.

AQUATIC ECOTOXICITY:

PRODUCT/INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
QUATERNARY		ACUTE EC50: 0.058 MG/L	DAPHNIA	48 HOURS
AMMONIUM CHLORIDES		ACUTE LC50: 0.52 MG/L	FISH - BLUEGILL.	96 HOURS

SECTION 13. DISPOSAL CONSIDERATIONS



WASTE INFORMATION:

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES FOR ADDITIONAL INFORMATION.

WASTE STREAM:

CODE: D002

CLASSIFICATION: (HAZARDOUS WASTE.)

ORIGIN: (RCRA WASTE.)

SECTION 14. TRANSPORT INFORMATION



REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PG*	LABEL
DOT CLASSIFICATION	NOT REGULATED.	NOT A DOT CONTROLLED MATERIAL (UNITED STATES).			

NOTE:

DOT CLASSIFICATION APPLIES TO MOST PACKAGE SIZES. FOR SPECIFIC CONTAINER SIZE CLASSIFICATIONS OR FOR SIZE EXCEPTIONS, REFER TO THE BILL OF LADING WITH YOUR SHIPMENT.

PG*: PACKING GROUP

SECTION 15. REGULATORY INFORMATION



U.S. FEDERAL REGULATIONS

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:
NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 307: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 311: NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES:
NO PRODUCTS WERE FOUND.

ALL COMPONENTS OF THIS PRODUCT ARE LISTED OR EXEMPT FROM LISTING ON TSCA
INVENTORY.

UNITED STATES INVENTORY (TSCA 8B): NOT DETERMINED.

STATE REGULATIONS:

CALIFORNIA PROP 65: NO PRODUCTS WERE FOUND.

SECTION 16. OTHER INFORMATION

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS
ACCURATE. HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS
SUBSIDIARIES ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR
COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE
RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND
SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED
HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

*NOTE:

HAZARD DETERMINATION SYSTEM (HDS) RATINGS ARE BASED ON A 0-4 RATING SCALE,
WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING
SIGNIFICANT HAZARDS OR RISKS ALTHOUGH THESE RATINGS ARE NOT REQUIRED ON
MSDSS UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM. HDS
RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED PROGRAM TO RELAY THE
MEANINGS OF THIS SCALE.

[Close this window](#)

MSDS

Common Name: TOUGH GUY LIQUID OVEN CLEANER, 12M197**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 7/7/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 12M197**Manufacturer Model Number(s):**

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GRAINGER (R*)

FOR THE ONES WHO GET IT DONE

MATERIAL SAFETY DATA SHEET

SAFETY DATA SHEET

MANUFACTURED FOR:

W.W. GRAINGER, INC.

100 GRAINGER PKWY.

LAKE FOREST, IL 60045-5201

1-847-535-1000

WWW.GRAINGER.COM

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: TOUGH GUY LIQUID OVEN CLEANER

PRODUCT USE: ALKALINE CLEANER.

PRODUCT CODE: 12M197

PREPARED BY:
COMPLIANCE SERVICES
1420 SEABOARD INDUSTRIAL BLVD.
ATLANTA, GA 30318

EMERGENCY TELEPHONE NUMBERS:

FOR MSDS INFORMATION:
TECHNICAL SERVICES: 1-847-535-5400

FOR MEDICAL EMERGENCY: (800) 983-4582 TOLL FREE

FOR TRANSPORTATION EMERGENCY:
CHEMTREC: (800) 424-9300 - ALL CALLS RECORDED
IN THE DISTRICT OF COLUMBIA: (202) 483-7616

DATE OF ISSUE: 07/07/11

SUPERSEDES:

SECTION 2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

DANGER!

CAUSES EYE, SKIN & MUCOUS MEMBRANE BURNS.

HARMFUL OR FATAL IF SWALLOWED.

NOTE:

MSDS DATA PERTAINS TO THE PRODUCT AS DELIVERED IN THE ORIGINAL SHIPPING CONTAINER(S). RISK OF ADVERSE EFFECTS ARE LESSENERED BY FOLLOWING ALL PRESCRIBED SAFETY PRECAUTIONS, INCLUDING THE USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT.

ROUTES OF ENTRY: DERMAL CONTACT. EYE CONTACT. INHALATION.

ACUTE EFFECTS:

EYES:

CAUSES EYE BURNS. EYE EXPOSURE MAY CAUSE SEVERE AND PERMANENT EYE INJURY (BLINDNESS).

SKIN:

CAUSES SKIN BURNS. THE AMOUNT OF TISSUE DAMAGE DEPENDS ON LENGTH OF CONTACT. SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, REDDENING OR, OCCASIONALLY, BLISTERING.

INHALATION:

AVOID INHALATION OF VAPOR, SPRAY OR MIST. LIQUID, SPRAY OR MIST MAY PRODUCE TISSUE DAMAGE, PARTICULARLY TO MUCOUS MEMBRANES OF EYES, MOUTH AND RESPIRATORY TRACT.

INGESTION:

MAY BE FATAL IF SWALLOWED. MAY CAUSE BURNS TO MOUTH, THROAT, AND STOMACH.

CHRONIC EFFECTS:

REPEATED OR PROLONGED EXPOSURE TO SPRAY OR MIST MAY PRODUCE RESPIRATORY TRACT IRRITATION LEADING TO FREQUENT ATTACKS OF BRONCHIAL INFECTION.

REPEATED OR PROLONGED EXPOSURE TO THE SUBSTANCE CAN PRODUCE DAMAGE TO BLOOD.

CARCINOGENICITY

INGREDIENTS: NOT LISTED AS CARCINOGEN BY OSHA, NTP OR IARC.

PRODUCT/INGREDIENT NAME: NOT AVAILABLE.

ADDITIONAL INFORMATION: SEE TOXICOLOGICAL INFORMATION (SECTION 11)

*HAZARD DETERMINATION SYSTEM (HDS):

HEALTH 3

FLAMMABILITY 0

REACTIVITY 0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



NAME OF HAZARDOUS INGREDIENTS	CAS NUMBER	% BY WEIGHT
SODIUM HYDROXIDE; CAUSTIC SODA; SODA LYE	1310-73-2	5 - 10
DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-BUTOXYETHOXY)-ETHANOL; BUTYL CARBITOL	112-34-5	1 - 5
PROPYLENE GLYCOL; 1,2-DIHYDROXYPROPANE,1, 2-PROPANEDIOL	57-55-6	1 - 5

SECTION 4. FIRST AID MEASURES



EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. CHECK FOR AND REMOVE ANY CONTACT LENSES. CONTINUE TO RINSE FOR AT LEAST 10 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

FLUSH AFFECTED SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CONTAMINATED CLOTHING THOROUGHLY WITH WATER BEFORE REMOVING OR WEAR GLOVES. CONTINUE TO RINSE FOR AT LEAST 10 MINUTES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION.

INHALATION:

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF AFFECTED PERSON IS CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5. FIRE FIGHTING MEASURES



FLASH POINT: NOT APPLICABLE

FLAMMABLE LIMITS: NOT APPLICABLE

FLAMMABILITY: NON-COMBUSTIBLE.

FIRE HAZARD: MAY EMIT TOXIC FUMES UNDER FIRE CONDITIONS.

FIRE-FIGHTING PROCEDURES:

USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE.

FIRE-FIGHTERS SHOULD WEAR APPROPRIATE PROTECTIVE EQUIPMENT. DO NOT RELEASE RUNOFF FROM FIRE TO DRAINS OR WATERCOURSES.

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

3
0
0

SECTION 6. ACCIDENTAL RELEASE MEASURES



SPILL CLEAN UP:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. DILUTE WITH WATER AND MOP UP IF WATER-SOLUBLE OR ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER. DISPOSE OF VIA A LICENSED WASTE DISPOSAL CONTRACTOR.

SECTION 7. HANDLING AND STORAGE



HANDLING:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. DO NOT BREATHE VAPORS OR SPRAY MIST. USE ONLY WITH ADEQUATE VENTILATION. DO NOT INGEST. DO NOT REUSE CONTAINER. DO NOT USE WITH OTHER PRODUCTS. OBSERVE LABEL PRECAUTIONS. INCOMPATIBLE WITH ALUMINUM AND GALVANIZED METAL. WASH THOROUGHLY AFTER HANDLING.

STORAGE:

STORE AWAY FROM INCOMPATIBLE MATERIALS. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE. KEEP CONTAINER IN A COOL, WELL-VENTILATED AREA.

STORE BETWEEN THE FOLLOWING TEMPERATURES:

40 DEG. F - 120 DEG. F (4.4 DEG. C - 49 DEG. C). KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



PRODUCT NAME

EXPOSURE LIMITS

SODIUM HYDROXIDE; CAUSTIC
SODA; SODA LYE

ACGIH TLV (UNITED STATES).
CEIL: 2 MG/M3

OSHA PEL (UNITED STATES).
TWA: 2 MG/M3

NIOSH REL (UNITED STATES).
CEIL: 2 MG/M3

PROPYLENE GLYCOL; 1,2-
DIHYDROXYPROPANE,1,2-
PROPANEDIOL

AIHA WEL (UNITED STATES, 1/2009).
TWA: 10 MG/M3 8 HOUR(S).

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYES: CHEMICAL SPLASH GOGGLES OR FACE SHIELD.

BODY: WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT.

RECOMMENDED: RUBBER GLOVES. NEOPRENE GLOVES. SYNTHETIC APRON.

RESPIRATORY:

USE WITH ADEQUATE VENTILATION. PROVIDE EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP THE AIRBORNE CONCENTRATIONS OF VAPORS BELOW THEIR RESPECTIVE OCCUPATIONAL EXPOSURE LIMITS.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID.

pH: 13.0 - 14.0

BOILING POINT: NOT DETERMINED.

SPECIFIC GRAVITY: 1.08

SOLUBILITY:

EASILY SOLUBLE IN THE FOLLOWING MATERIALS: COLD WATER AND HOT WATER.

COLOR: CLEAR. COLORLESS.

ODOR: LEMON-LIKE.

VAPOR PRESSURE: NOT DETERMINED.

VAPOR DENSITY: NOT DETERMINED.

EVAPORATION RATE: 1 (WATER = 1)

VOC (CONSUMER): 0 G/L

SECTION 10. STABILITY AND REACTIVITY

STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY: DO NOT USE WITH OTHER PRODUCTS.

SLIGHTLY REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS:
OXIDIZING MATERIALS, REDUCING MATERIALS, SOME METALS AND ACIDS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES (CO, CO2)

SECTION 11. TOXICOLOGICAL INFORMATION**ACUTE TOXICITY:**

PRODUCT/INGREDIENT	RESULT	SPECIES	DOSE	EXPOSURE
--------------------	--------	---------	------	----------

NAME

SODIUM HYDROXIDE	LD50 DERMAL	RABBIT	>2000 MG/KG
	LD50 ORAL	RAT	500 MG/KG
DIETHYLENE GLYCOL MONOBUTYL ETHER	LD50 DERMAL	RABBIT	2700 MG/KG
	LD50 ORAL	RAT	6050 MG/KG
	LD50 ORAL	RAT	5660 MG/KG
	LD50 ORAL	RAT	4500 MG/KG
	LD50 ORAL	MOUSE	2400 MG/KG
	LD50 UNREPORTED	RAT	4500 MG/KG
PROPANE-1,2-DIOL	LD50 DERMAL	RABBIT	20800 MG/KG
	LD50 DERMAL	RABBIT	208 MG/KG
	LD50 INTRAMUSCULAR	RAT	14 G/KG
	LD50 INTRAMUSCULAR	RAT	20000 MG/KG
	LD50 INTRAPERITONEAL	RAT	6660 MG/KG
	LD50 INTRAVENOUS	RAT	6800 MG/KG
	LD50 INTRAVENOUS	RAT	6423 MG/KG
	LD50 ORAL	RAT	20 G/KG
	LD50 ORAL	DOG	260 MG/KG
	LD50 ORAL	MOUSE	240 MG/KG
	LD50 ORAL	RAT	200 MG/KG
	LD50 SUBCUTANEOUS	RAT	28000 MG/KG
	LD50 SUBCUTANEOUS	RAT	22500 MG/KG
	TDLO INTRAPERITONEAL	RAT	19500 MG/KG

SECTION 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS: NOT AVAILABLE.

AQUATIC ECOTOXICITY:

PRODUCT/INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
SODIUM HYDROXIDE		ACUTE LC50: 25 PPM	FISH - TROUT	24 HOURS
DIETHYLENE GLYCOL MONOBUTYL ETHER		ACUTE LC50: 2000000 (MICRO)G/L MARINE WATER	FISH - INLAND SILVERSIDE - MENIDIA BERYLLINA - 40 TO 100 MM	96 HOURS
		ACUTE LC50: 1300000 (MICRO)G/L FRESH WATER	FISH - BLUEGILL - LEPOMIS MACROCHIRUS - 33 TO 75 MM	96 HOURS
PROPANE-1,2-DIOL		ACUTE EC50: >10000000 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - DAPHNIA MAGNA - 6 TO 24 HOURS	48 HOURS
		ACUTE LC50 34060 MG/L FRESH WATER	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - </=7 DAYS	96 HOURS
		ACUTE LC50: 15052 MG/L FRESH WATER	DAPHNIA - WATER FLEA - CERIODAPHNIA DUBIA - <24 HOURS	48 HOURS

ACUTE LC50: 5122 MG/L FRESH WATER	DAPHNIA - WATER FLEA - CERIODAPHNIA DUBIA - <24 HOURS	48 HOURS
ACUTE LC50: >1000 MG/L MARINE WATER	CRUSTACEANS - AMPHIPOD - CHAETOGAMMARUS MARINUS - YOUNG - 5 MM	48 HOURS
ACUTE LC50: 55770000 (MICRO)G/L FRESH WATER	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - </=7 DAYS	96 HOURS
ACUTE LC50: 1020000 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - CERIODAPHNIA DUBIA - </=24 HOURS	48 HOURS
ACUTE LC50: 710000 (MICRO)G/L FRESH WATER	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - </=7 DAYS	96 HOURS
CHRONIC NOEC: 660000 (MICRO)G/L FRESH WATER	DAPHNIA - WATER FLEA - CERIODAPHNIA DUBIA - </=24 HOURS	48 HOURS
CHRONIC NOEC: 600000 (MICRO)G/L FRESH WATER	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - </=7 DAYS	96 HOURS

SECTION 13. DISPOSAL CONSIDERATIONS



WASTE INFORMATION:

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES FOR ADDITIONAL INFORMATION.

WASTE STREAM:

CODE: D002

CLASSIFICATION: (HAZARDOUS WASTE)

ORIGIN: (RCRA WASTE.)

SECTION 14. TRANSPORT INFORMATION



REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PG*	LABEL
DOT CLASSIFICATION	3266	CORROSIVE LIQUID, BASIC, INORGANIC, NOS (SODIUM HYDROXIDE)	8	II	CORROSIVE, CLASS/DIVISION 8

NOTE:

DOT CLASSIFICATION APPLIES TO MOST PACKAGE SIZES. FOR SPECIFIC CONTAINER SIZE CLASSIFICATIONS OR FOR SIZE EXCEPTIONS, REFER TO THE BILL OF LADING WITH YOUR SHIPMENT.

PG*: PACKING GROUP

SECTION 15. REGULATORY INFORMATION



U.S. FEDERAL REGULATIONS:

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:

PRODUCT NAME: DIETHYLENE GLYCOL MONOBUTYL ETHER

CLEAN WATER ACT (CWA) 307: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 311: SODIUM HYDROXIDE

CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES:
DIETHYLENE GLYCOL MONOBUTYL ETHER

ALL COMPONENTS OF THIS PRODUCT ARE LISTED OR EXEMPT FROM LISTING ON TSCA INVENTORY.

UNITED STATES INVENTORY (TSCA 8B): NOT DETERMINED.

STATE REGULATIONS:

CALIFORNIA PROP 65: NO PRODUCTS WERE FOUND.

SECTION 16. OTHER INFORMATION



TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS SUBSIDIARIES ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

*NOTE:

HAZARD DETERMINATION SYSTEM (HDS) RATINGS ARE BASED ON A 0-4 RATING SCALE, WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS ALTHOUGH THESE RATINGS ARE NOT REQUIRED ON MSDSS UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM. HDS RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED PROGRAM TO RELAY THE MEANINGS OF THIS SCALE.

[Close this window](#)

MSDS

Common Name: JINX PLUS**Manufacturer:** CLAIRE MANUFACTURING**MSDS Revision Date:** 4/28/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 13X073**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

CLAIRE (R*)

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NUMBER: 039-002

PRODUCT NAME: JINX PLUS

EFFECTIVE DATE: 28-APR-2011

COMPANY INFORMATION:
CLAIRE MANUFACTURING CO.
1005 S. WESTGATE DRIVE
ADDISON, IL 60101
UNITED STATES

COMPANY PHONE:
GENERAL ASSISTANCE: 630-543-7600

EMERGENCY TELEPHONE US: 800-424-9300

EMERGENCY TELEPHONE OUTSIDE US: 703-527-3887

VERSION #: 03

SUPERSEDES DATE: 18-JAN-2010

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

AEROSOL. CONTENTS UNDER PRESSURE.

HARMFUL IN CONTACT WITH EYES. PROLONGED EXPOSURE MAY CAUSE CHRONIC EFFECTS.

POTENTIAL HEALTH EFFECTS:

ROUTES OF EXPOSURE: EYE CONTACT. SKIN CONTACT. INGESTION.

EYES:

CONTACT MAY IRRITATE OR BURN EYES. EYE CONTACT MAY RESULT IN CORNEAL INJURY.

SKIN:

FREQUENT OR PROLONGED CONTACT MAY DEFAT AND DRY THE SKIN, LEADING TO DISCOMFORT AND DERMATITIS.

INHALATION:

INTENTIONAL MISUSE BY CONCENTRATING AND INHALING THE PRODUCT CAN BE HARMFUL OR FATAL.

INGESTION:

EXPOSURE BY INGESTION OF AN AEROSOL IS UNLIKELY. MAY CAUSE DELAYED LUNG DAMAGE. COMPONENTS OF THE PRODUCT MAY BE ABSORBED INTO THE BODY BY INGESTION.

TARGET ORGANS: CENTRAL NERVOUS SYSTEM. LUNGS.

CHRONIC EFFECTS:

CONJUNCTIVA. MAY CAUSE CENTRAL NERVOUS SYSTEM DISORDER (E.G., NARCOSIS INVOLVING A LOSS OF COORDINATION, WEAKNESS, FATIGUE, MENTAL CONFUSION AND BLURRED VISION) AND/OR DAMAGE. FREQUENT OR PROLONGED CONTACT MAY DEFAT AND DRY THE SKIN, LEADING TO DISCOMFORT AND DERMATITIS. MAY CAUSE DELAYED LUNG INJURY.

SIGNS AND SYMPTOMS:

DISCOMFORT IN THE CHEST. CORNEAL DAMAGE. NARCOSIS. COUGHING. CONJUNCTIVITIS. DEFATTING OF THE SKIN. SKIN IRRITATION.

3. COMPOSITION / INFORMATION ON INGREDIENTS



COMPONENTS	CAS #	PERCENT
DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	8 - 10
n-BUTANE	106-97-8	3 - 5
ISOPROPYL ALCOHOL	67-63-0	1 - 3
PROPANE	74-98-6	1 - 3

NON-HAZARDOUS AND OTHER COMPONENTS BELOW
REPORTABLE LEVELS

80 - 90

4. FIRST AID MEASURES



FIRST AID PROCEDURES:

EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS.

SKIN CONTACT:

WASH OFF WITH WARM WATER AND SOAP. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS.

INHALATION:

IF INHALATION OF GAS/FUME/VAPOR/DUST/MIST FROM THE MATERIAL IS EXCESSIVE (AIR CONCENTRATION IS GREATER THAN THE TLV OR HEALTH EFFECTS ARE NOTICED), IMMEDIATELY REMOVE THE AFFECTED PERSON(S) TO FRESH AIR. CALL A PHYSICIAN IF SYMPTOMS DEVELOP OR PERSIST.

INGESTION:

IN THE UNLIKELY EVENT OF SWALLOWING CONTACT A PHYSICIAN OR POISON CONTROL CENTER.

NOTES TO PHYSICIAN: SYMPTOMS MAY BE DELAYED.

5. FIRE FIGHTING MEASURES



FLAMMABLE PROPERTIES:

VAPOR OR GAS MAY SPREAD TO DISTANT IGNITION SOURCES AND FLASH BACK. RUNOFF TO SEWER MAY CAUSE FIRE OR EXPLOSION HAZARD.

EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING MEDIA:

WATER FOG. FOAM. DRY CHEMICAL POWDER. CARBON DIOXIDE (CO2).

PROTECTION OF FIREFIGHTERS:

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:

IN CASE OF FIRE AND/OR EXPLOSION DO NOT BREATHE FUMES. CONTAINERS SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILD UP.

6. ACCIDENTAL RELEASE MEASURES



METHODS FOR CONTAINMENT:

STOP LEAK IF YOU CAN DO SO WITHOUT RISK. MOVE THE CYLINDER TO A SAFE AND OPEN AREA IF THE LEAK IS IRREPARABLE. STOP THE FLOW OF MATERIAL, IF THIS IS WITHOUT RISK.

METHODS FOR CLEANING UP:

SHOULD NOT BE RELEASED INTO THE ENVIRONMENT. USE A NON-COMBUSTIBLE MATERIAL LIKE VERMICULITE, SAND OR EARTH TO SOAK UP THE PRODUCT AND PLACE INTO A CONTAINER FOR LATER DISPOSAL.

SMALL SPILLS:

WIPE UP WITH ABSORBENT MATERIAL (E.G. CLOTH, FLEECE). CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION.

7. HANDLING AND STORAGE



HANDLING:

PRESSURIZED CONTAINER:

DO NOT PIERCE OR BURN, EVEN AFTER USE. DO NOT SMOKE WHILE USING OR UNTIL SPRAYED SURFACE IS THOROUGHLY DRY. USE ONLY IN AREA PROVIDED WITH APPROPRIATE EXHAUST VENTILATION. DO NOT USE IF SPRAY BUTTON IS MISSING OR DEFECTIVE. DO NOT RE-USE EMPTY CONTAINERS. DO NOT GET THIS MATERIAL IN CONTACT WITH EYES. AVOID CONTACT WITH SKIN. AVOID PROLONGED EXPOSURE.

STORAGE: LEVEL 1 AEROSOL.

CONTENTS UNDER PRESSURE. DO NOT PUNCTURE, INCINERATE OR CRUSH. THE PRESSURE IN SEALED CONTAINERS CAN INCREASE UNDER THE INFLUENCE OF HEAT. KEEP AWAY FROM HEAT AND FLAME. AVOID EXPOSURE TO LONG PERIODS OF SUNLIGHT. STORE IN COOL PLACE. KEEP OUT OF THE REACH OF CHILDREN. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



EXPOSURE LIMITS:

ACGIH:

COMPONENTS	CAS #	TWA	STEL	CEILING
DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	20 PPM	NOT ESTABLISHED	NOT ESTABLISHED
n-BUTANE	106-97-8	1000 PPM	NOT ESTABLISHED	NOT ESTABLISHED
ISOPROPYL ALCOHOL	67-63-0	200 PPM	400 PPM	NOT ESTABLISHED
PROPANE	74-98-6	1000 PPM	NOT ESTABLISHED	NOT ESTABLISHED

OSHA:

COMPONENTS	CAS #	TWA	STEL	CEILING
DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	100 PPM	NOT ESTABLISHED	NOT ESTABLISHED
ISOPROPYL ALCOHOL	67-63-0	400 PPM	NOT ESTABLISHED	NOT ESTABLISHED
PROPANE	74-98-6	1000 PPM	NOT ESTABLISHED	NOT ESTABLISHED

PERSONAL PROTECTIVE EQUIPMENT:

EYE / FACE PROTECTION: DO NOT GET IN EYES.

SKIN PROTECTION:

WEAR APPROPRIATE CHEMICAL RESISTANT CLOTHING. CHEMICAL RESISTANT GLOVES.

RESPIRATORY PROTECTION:

WHEN WORKERS ARE FACING CONCENTRATIONS ABOVE THE EXPOSURE LIMIT THEY MUST

USE APPROPRIATE CERTIFIED RESPIRATORS. IF PERMISSIBLE LEVELS ARE EXCEEDED
USE NIOSH MECHANICAL FILTER / ORGANIC VAPOR CARTRIDGE OR AN AIR-SUPPLIED
RESPIRATOR.

9. PHYSICAL & CHEMICAL PROPERTIES



APPEARANCE: COMPRESSED LIQUEFIED GAS.

BOILING POINT: 219.2 DEG. F (103.9 DEG. C) ESTIMATED

COLOR: CLEAR. COLORLESS.

DENSITY: 0.9549 G/CM3 ESTIMATED

FLAMMABILITY (HOC): 6.1075 KJ/G ESTIMATED

FLASH BACK: NO

FLASH POINT: -156 DEG. F (-104.4 DEG. C) PROPELLANT

FORM: AEROSOL.

FREEZING POINT: NOT AVAILABLE

ODOR: SWEET.

pH: 10 - 11

PHYSICAL STATE: LIQUID.

PRESSURE: 50 - 70 PSIG @ 70F

SOLUBILITY: PARTIALLY

SPECIFIC GRAVITY: 0.955 ESTIMATED

10. CHEMICAL STABILITY & REACTIVITY INFORMATION



CHEMICAL STABILITY:

RISK OF IGNITION. INSTABILITY CAUSED BY ELEVATED TEMPERATURES.

CONDITIONS TO AVOID: HEAT, FLAMES AND SPARKS.

HAZARDOUS DECOMPOSITION PRODUCTS:

NO HAZARDOUS DECOMPOSITION PRODUCTS ARE KNOWN.

11. TOXICOLOGICAL INFORMATION



ACUTE EFFECTS:

ACUTE LD50: 26737 MG/KG ESTIMATED, RAT, DERMAL

ACUTE LC50: 169 MG/L/4H ESTIMATED, RAT, INHALATION

COMPONENT ANALYSIS - LD50:

TOXICOLOGY DATA - SELECTED LD50S AND LC50S:

DIETHYLENE GLYCOL

112-34-5

ORAL LD50 RAT 3384 MG/KG

MONOBUTYL ETHER		DERMAL LD50 RABBIT 2700 MG/KG
ISOPROPYL ALCOHOL	67-63-0	INHALATION LC50 RAT 72.6 MG/L 4 H ORAL LD50 RAT 4396 MG/KG DERMAL LD50 RAT 12800 MG/KG DERMAL LD50 RABBIT 12870 MG/KG
n-BUTANE	106-97-8	INHALATION LC50 RAT 658 MG/L 4 H
PROPANE	74-98-6	INHALATION LC50 RAT 658 MG/L 4 H

12. ECOLOGICAL INFORMATION



ECOTOXICITY:

COMPONENTS OF THIS PRODUCT HAVE BEEN IDENTIFIED AS HAVING POTENTIAL ENVIRONMENTAL CONCERNS.

LC50 165 MG/L ESTIMATED, FISH, 96.00 HOURS

EC50 20628 MG/L ESTIMATED, DAPHNIA, 48.00 HOURS

IC50 4793 MG/L ESTIMATED, ALGAE, 72.00 HOURS

13. DISPOSAL CONSIDERATIONS



WASTE CODES:

D001: WASTE FLAMMABLE MATERIAL WITH A FLASH POINT <140 F

DISPOSAL INSTRUCTIONS:

CONTENTS UNDER PRESSURE. DO NOT PUNCTURE, INCINERATE OR CRUSH. DISPOSE OF THIS MATERIAL AND ITS CONTAINER TO HAZARDOUS OR SPECIAL WASTE COLLECTION POINT. DO NOT ALLOW THIS MATERIAL TO DRAIN INTO SEWERS/WATER SUPPLIES. IF DISCARDED, THIS PRODUCT IS CONSIDERED A RCRA IGNITABLE WASTE, D001.

14. TRANSPORT INFORMATION



DEPARTMENT OF TRANSPORTATION (DOT) REQUIREMENTS:

BASIC SHIPPING REQUIREMENTS:

PROPER SHIPPING NAME: CONSUMER COMMODITY

HAZARD CLASS: ORM-D

SUBSIDIARY HAZARD CLASS: NONE

ADDITIONAL INFORMATION:

PACKAGING EXCEPTIONS: 156, 306

PACKAGING NON BULK: 156, 306

PACKAGING BULK: NONE

IMDG:

BASIC SHIPPING REQUIREMENTS: CLASS 2.1 - FLAMMABLE GASES

PROPER SHIPPING NAME: AEROSOLS

HAZARD CLASS: 2.1

UN NUMBER: 1950

ADDITIONAL INFORMATION:

PACKAGING EXCEPTIONS: LTD QTY

LABELS REQUIRED: NONE

BASIC SHIPPING REQUIREMENTS: CLASS 2.1, FLAMMABLE GASES
PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE
HAZARD CLASS: 2.1
UN NUMBER: 1950

PACKAGING EXCEPTIONS: LTD QTY
LABELS REOUIRED: 2.1

 top

THIS PRODUCT IS A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

DIETHYLENE GLYCOL	112-34-5	1.0 % DE MINIMIS CONCENTRATION
MONOBUTYL ETHER		(APPLIES TO R-(OCH ₂ CH ₂) _n -OR', WHERE N = 1, 2, OR 3, R=ALKYL C7 OR LESS, OR R = PHENYL OR ALKYL SUBSTITUTED PHENYL, R' = H OR ALKYL C7 OR LESS, OR OR' CONSISTING OF CARBOXYLIC ACID ESTER, SULFATE, PHOSPHATE, NITRATE, OR SULFONATE, CHEMICAL CATEGORY N230)

ISOPROPYL ALCOHOL	67-63-0	1.0 % DE MINIMIS CONCENTRATION (ONLY IF MANUFACTURED BY THE STRONG ACID PROCESS, NO SUPPLIER NOTIFICATION)
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OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA):
29 CFR 1910.1200 HAZARDOUS CHEMICAL: YES

CERCLA (SUPERFUND) REPORTABLE QUANTITY: NONE

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA):
SECTION 302 EXTREMELY HAZARDOUS SUBSTANCE: NO
SECTION 311 HAZARDOUS CHEMICAL: YES

IMMEDIATE HAZARD: YES
 DELAYED HAZARD: YES
 FIRE HAZARD: YES
 PRESSURE HAZARD: YES
 REACTIVITY HAZARD: NO

INVENTORY STATUS:

COUNTRY(S) OR REGION	INVENTORY NAME	ON INVENTORY (YES/NO) *
CHINA	INVENTORY OF EXISTING CHEMICAL SUBSTANCES IN CHINA (IECSC)	NO
EUROPE	EUROPEAN INVENTORY OF NEW AND EXISTING CHEMICALS (EINECS)	NO
EUROPE	EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES (ELINCS)	NO

JAPAN	INVENTORY OF EXISTING AND NEW CHEMICAL SUBSTANCES (ENCS)	NO
KOREA	EXISTING CHEMICALS LIST (ECL)	NO
UNITED STATES & PUERTO RICO	TOXIC SUBSTANCES CONTROL ACT (TSCA) INVENTORY	YES

A "YES" INDICATES THAT ALL COMPONENTS OF THIS PRODUCT COMPLY WITH THE INVENTORY REQUIREMENTS ADMINISTERED BY THE GOVERNING COUNTRY(S)

STATE REGULATIONS:

WARNING:

THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

U.S. - PENNSYLVANIA - RTK (RIGHT TO KNOW) LIST:

DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	ENVIRONMENTAL HAZARD
ISOPROPYL ALCOHOL	67-63-0	ENVIRONMENTAL HAZARD
n-BUTANE	106-97-8	PRESENT
PROPANE	74-98-6	PRESENT

16. OTHER INFORMATION



FURTHER INFORMATION:

HMIS(R*) IS A REGISTERED TRADE AND SERVICE MARK OF THE NPCA.

HMIS(R*) RATINGS:

HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	0

DISCLAIMER:

THE INFORMATION PROVIDED IN THIS SAFETY DATA SHEET IS CORRECT TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF AT THE DATE OF ITS PUBLICATION. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. THE INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS, UNLESS SPECIFIED IN THE TEXT. THE INFORMATION IN THE SHEET WAS WRITTEN BASED ON THE BEST KNOWLEDGE AND EXPERIENCE CURRENTLY AVAILABLE.

MSDS SECTIONS UPDATED:

THIS DOCUMENT HAS UNDERGONE SIGNIFICANT CHANGES AND SHOULD BE REVIEWED IN ITS ENTIRETY.

PREPARED BY: REGULATORY COMPLIANCE

PRODUCT #: 039-002

REVISION DATE: 28-APR-2011

PRINT DATE: 28-APR-2011

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MSDS

Common Name: TOUGH GUY - ODOR FREE**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 8/1/2006**MSDS Format:** No Format Specified**Grainger Item Number(s):** 16W262**Manufacturer Model Number(s):**

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W.W. GRAINGER, INC.
100 LAKE FOREST PARKWAY
LAKE FOREST, IL 60045-5201

TOUGH GUY

EMERGENCY CONTACT: 800-983-4582

TECHNICAL SERVICE: 847-535-5400

TELEPHONE NUMBER: 847-535-1000

MATERIAL SAFETY DATA SHEET

DATE: 08/01/2006

SECTION I - PRODUCT IDENTIFICATION



NAME: TOUGH GUY - ODOR FREE

DOT CLASS: NON-REGULATED

UN NUMBER: NA

PROPER SHIPPING NAME: NA

HMIS RATING & CANADIAN WHMIS CLASSIFICATION:

HEALTH 1

FIRE 0

REACTIVITY 0

CANADIAN WHMIS CLASSIFICATION: D2B

CANADIAN FOOD INSPECTION AGENCY:

THIS PRODUCT HAS BEEN APPROVED BY THE CANADIAN FOOD INSPECTION AGENCY (CFIA) FOR USE IN REGISTERED ESTABLISHMENTS PROVIDED THAT IT IS USED IN KEEPING WITH THE INSTRUCTIONS OUTLINED ON THE PRODUCT LABEL.

SECTION II - INGREDIENTS



ALL COMPONENTS APPEAR ON THE TSCA INVENTORY. COMPONENTS NOT LISTED ARE EITHER NON HAZARDOUS OR IN CONCENTRATIONS OF LESS THAN 1%.

INGREDIENT NAME	CAS NUMBER	OSHA PEL	ACGIH TLV/TWA
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PROPRIETARY FORMULATION

SECTION III - PHYSICAL CHARACTERISTICS



BOILING POINT: 100C

APPEARANCE AND ODOR: OPAQUE LIQUID, SLIGHT ODOR

SPECIFIC GRAVITY: APPROXIMATELY 1

MELTING POINT: NA

PH: 7.5 - 8.5

VAPOR DENSITY: EQUIVALENT TO WATER

VAPOR PRESSURE: EQUIVALENT TO WATER

SOLUBILITY: COMPLETE

SECTION IV - FIRE/EXPLOSION



FLASH POINT: NA

FLASH POINT METHOD USED: NA

LEL: NA

UEL: NA

EXTINGUISHING MEDIA: WATER SPRAY, CARBON DIOXIDE, AND DRY CHEMICAL POWDER

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN

SECTION V - REACTIVITY DATA



STABLE (X)

UNSTABLE ()

INCOMPATIBILITY: NOT KNOWN

HAZARDOUS DECOMPOSITION OR BY PRODUCTS: NOT KNOWN

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA



ACUTE HEALTH AFFECTS:

ROUTE OF ENTRY:

INHALATION: NO

ABSORPTION: YES

INGESTION: YES

EYES: YES

EYES: THIS PRODUCT MAY CAUSE EYE IRRITATION.

SKIN CONTACT: COULD CAUSE MILD SKIN IRRITATION AFTER PROLONGED CONTACT.

INHALATION:

INHALING MIST FROM THIS PRODUCT COULD CAUSE IRRITATION TO THE LUNGS AND MUCUS MEMBRANES.

INGESTION: INGESTION MAY RESULT IN ABDOMINAL PAIN, NAUSEA AND VOMITING.

CONDITIONS TO AVOID:

STRONG ACIDS OR ALKALI COMPOUNDS MAY INACTIVATE BIOLOGICAL CULTURES.

SIGNS AND SYMPTOMS OF OVER EXPOSURE: NONE KNOWN

AGGRAVATED MEDICAL CONDITIONS:

NONE KNOWN, HOWEVER PERSONS WITH RESPIRATORY PROBLEMS SHOULD AVOID BREATHING ANY MIST FROM THIS PRODUCT.

EMERGENCY FIRST AID PROCEDURES:

EYE CONTACT:

RINSE EYES WITH WATER FOR FIFTEEN MINUTES, IF IRRITATION PERSISTS, SEE A PHYSICIAN.

INHALATION:

MOVE PERSON TO FRESH AIR AND AVOID BREATHING DUST FROM PRODUCT.

IF BREATHING PROBLEMS DEVELOP, SEEK THE CARE OF A PHYSICIAN.

SKIN CONTACT:

WASH THE PRODUCT OFF THE SKIN WITH SOAP AND WATER; IF IRRITATION DEVELOPS SEEK THE CARE OF A PHYSICIAN.

INGESTION:

WATCH VICTIM FOR ANY SIGNS OF ILLNESS, INDUCE VOMITING ONLY IF ADVISED BY A PHYSICIAN.

SECTION VII - SPILL OR LEAK PROCEDURE



STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR LEAKED:

WASTE DISPOSAL METHOD:

CONTAIN AND COLLECT MATERIAL, PLACE IN PROPER CONTAINER FOR REUSE OR DISPOSAL. DISPOSE OF MATERIALS IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN A LOCATION AWAY FROM CHILDREN, FOOD ITEMS AND POTABLE WATER.

STORE IN AN AREA OUT OF THE DIRECT SUNLIGHT, KEEP CONTAINER CLOSED WHEN NOT IN USE, AVOID STORING IN A DAMP ENVIRONMENT.

ALWAYS WASH HANDS WITH SOAP AND WATER BEFORE HANDLING FOOD OR SMOKING.

USE GOOD CHEMICAL HYGIENE PRACTICES WHEN WORKING WITH ANY CHEMICAL.

OTHER PRECAUTIONS: NONE

SECTION VIII - CONTROL MEASURES (PPE)



RESPIRATORY PROTECTION: NONE REQUIRED FOR NORMAL USE.

PROTECTIVE GLOVES:

RECOMMENDED. DISPOSABLE NITRILE EXAM GLOVES ARE SUITABLE FOR PREVENTING PROLONGED CONTACT WITH THE SKIN.

EYE PROTECTION:

SAFETY GLASSES WITH SIDE SHIELDS OR SPLASH GOGGLES ARE RECOMMENDED.

OTHER PROTECTIVE CLOTHING:

NONE REQUIRED, HOWEVER, AVOID PROLONGED CONTACT WITH THE SKIN FROM SOILED CLOTHING.

VENTILATION:

LOCAL EXHAUST SHOULD BE SUFFICIENT. IF USED IN A MANNER THAT CREATES A MIST, MECHANICAL VENTILATION MAY BE NECESSARY.

THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS MATERIAL SAFETY DATA SHEET HAVE BEEN COMPILED FROM SOURCES BELIEVED TO BE RELIABLE AND TO REPRESENT CURRENT OPINION ON THE SUBJECT WHEN THE MSDS WAS PREPARED. NO WARRANTY, GUARANTY OR REPRESENTATION IS MADE AS TO THE CORRECTNESS OR SUFFICIENCY OF THE INFORMATION. THE USER OF THIS PRODUCT MUST DECIDE WHAT SAFETY MEASURES ARE NECESSARY TO SAFELY USE THIS PRODUCT, EITHER ALONE OR IN COMBINATION WITH OTHER PRODUCTS, AND DETERMINE IT'S ENVIRONMENTAL REGULATORY COMPLIANCE OBLIGATIONS UNDER ANY APPLICABLE FEDERAL, STATE AND LOCAL LAWS.

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MSDS

Common Name: SAFE-T-FRESH 2000**Manufacturer:** SATELLITE INDUSTRIES**MSDS Revision Date:** 4/6/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 18E877, 18E878, 18E879, 18E880, 18E881, 18E882, 18E883, 18E884, 18E885, 18E886, 18E887, 18E888**Manufacturer Model Number(s):**

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SATELLITE (R*)

SAFETY DATA SHEET

SATELLITE SAFE-T-FRESH 2000

ISSUED: APRIL 6, 2011

REVISION NO: 1

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE



COMPANY UNDERTAKING

PRODUCT NAME: SATELLITE SAFE-T-FRESH 2000

PRODUCT CODE: 1161

COMPANY NAME:
SATELLITE INDUSTRIES INC
2530 XENIUM LANE
MINNEAPOLIS
MINNESOTA 55441

USA

TEL: +18002334089

EMERGENCY TEL: +1.800.424.9300 CHEMTREC # 19618

EMAIL: MOREYO@SATELLITECO.COM

2. HAZARDS IDENTIFICATION



CLASSIFICATION:

HARMFUL BY INHALATION AND IF SWALLOWED.

RISK OF SERIOUS DAMAGE TO EYES.

MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.

WORKPLACE EXPOSURE LIMIT:

THIS PRODUCT DOES NOT HAVE A WORKPLACE EXPOSURE LIMIT.

PBT: THIS SUBSTANCE IS NOT IDENTIFIED AS A PBT SUBSTANCE.

3. COMPOSITION INFORMATION



COMPONENTS:

BRONOPOL (INN):

EINECS: 200-143-0

CAS: 52-51-7

GLUTARALDEHYDE:

EINECS: 203-856-5

CAS: 111-30-8

DIPROPYLENE GLYCOL:

CAS: 25265-71-8

TERGITOL:

CAS: 127087-87-0

4. FIRST AID MEASURES



SKIN CONTACT:

REMOVE ALL CONTAMINATED CLOTHES AND FOOTWEAR IMMEDIATELY.

DRENCH THE AFFECTED AREA WITH RUNNING WATER FOR 15-20 MINUTES.

CONSULT A DOCTOR IMMEDIATELY.

EYE CONTACT:

BATHE THE EYE WITH RUNNING WATER FOR 30 MINUTES. CONSULT A DOCTOR IMMEDIATELY.

INGESTION:

WASH OUT MOUTH WITH WATER THEN DRINK HALF A LITER OF WATER TO DRINK IMMEDIATELY. DO NOT INDUCE VOMITING. CONSULT A DOCTOR IMMEDIATELY.

INHALATION: REMOVE PERSON TO FRESH AIR. CONSULT A DOCTOR IMMEDIATELY.



5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING MEDIA FOR THE SURROUNDING FIRE SHOULD BE USED.
USE WATER SPRAY TO COOL CONTAINERS.

EXPOSURE HAZARDS: IN COMBUSTION EMITS TOXIC FUMES.

ADVICE FOR FIRE-FIGHTERS:

WEAR SELF-CONTAINED BREATHING APPARATUS.
WEAR PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS:

REFER TO SECTION 8 OF SDS FOR PERSONAL PROTECTION DETAILS. IF OUTSIDE DO NOT APPROACH FROM DOWNWIND. IF OUTSIDE KEEP BYSTANDERS UPWIND AND AWAY FROM DANGER POINT. MARK OUT THE CONTAMINATED AREA WITH SIGNS AND PREVENT ACCESS TO UNAUTHORIZED PERSONNEL. TURN LEAKING CONTAINERS LEAK-SIDE UP TO PREVENT THE ESCAPE OF LIQUID.

ENVIRONMENTAL PRECAUTIONS:

DO NOT DISCHARGE INTO DRAINS OR RIVERS. CONTAIN THE SPILLAGE USING BUNDING.

CLEAN-UP PROCEDURES:

SMALL SPILLS; COVER SPILL WITH ABSORBENT MATERIAL. COLLECT MATERIAL IN A LABELED SALVAGE CONTAINER FOR DISPOSAL. LARGE SPILLS; COVER USING ABSORBENT MATERIAL. COLLECT MATERIAL IN A LABELED SALVAGE CONTAINER FOR DISPOSAL.

7. HANDLING AND STORAGE



HANDLING REQUIREMENTS:

AVOID DIRECT CONTACT WITH THE SUBSTANCE. ENSURE THERE IS SUFFICIENT VENTILATION OF THE AREA. DO NOT HANDLE IN A CONFINED SPACE. AVOID THE FORMATION OR SPREAD OF MISTS IN THE AIR.

STORAGE CONDITIONS:

STORE IN COOL, WELL VENTILATED AREA. KEEP CONTAINER TIGHTLY CLOSED.

THE FLOOR OF THE STORAGE ROOM MUST BE IMPERMEABLE TO PREVENT THE ESCAPE OF LIQUIDS.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



HAZARDOUS INGREDIENTS:

GLUTARALDEHYDE:

LIST: ACGIH
TYPE: CEILING
VALUE: 0.05 PPM SEN

ENGINEERING MEASURES: ENSURE THERE IS SUFFICIENT VENTILATION OF THE AREA.

RESPIRATORY PROTECTION:

AN APPROVED AIR-PURIFYING RESPIRATOR MUST BE AVAILABLE FOR PERSONAL USE.

HAND PROTECTION: IMPERMEABLE GLOVES.

EYE PROTECTION:

SAFETY GLASSES. ENSURE EYE BATH IS LOCATED WITHIN APPROVED DISTANCE.

SKIN PROTECTION: IMPERMEABLE PROTECTIVE CLOTHING.

9. PHYSICAL AND CHEMICAL PROPERTIES

STATE: LIQUID

COLOR: BLUE

ODOR: PLEASANT

10. STABILITY AND REACTIVITY

STABILITY: STABLE UNDER NORMAL CONDITIONS.

CONDITIONS TO AVOID: HEAT.

MATERIALS TO AVOID: STRONG OXIDIZING AGENTS. STRONG ACIDS.

HAZ. DECOMP. PRODUCTS: IN COMBUSTION EMITS TOXIC FUMES.

11. TOXICOLOGICAL INFORMATION**ACUTE EFFECTS:**

HARMFUL BY INHALATION AND IF SWALLOWED. IRRITATING TO RESPIRATORY SYSTEM AND SKIN. RISK OF SERIOUS DAMAGE TO EYES.

SENSITIZATION: MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.

(SYMPTOMS):

SKIN CONTACT:

THERE IS A SMALL CHANCE OF IRRITATION AND REDNESS AT THE SITE OF CONTACT.

EYE CONTACT:

THERE IS A SMALL CHANCE OF IRRITATION AND REDNESS. THE EYES MAY WATER PROFUSELY.

INGESTION:

THERE MAY BE SORENESS AND REDNESS OF THE MOUTH AND THROAT. NAUSEA AND STOMACH PAIN MAY OCCUR. THERE MAY BE VOMITING.

INHALATION:

THERE MAY BE IRRITATION OF THE THROAT WITH A FEELING OF TIGHTNESS IN THE CHEST.

12. ECOLOGICAL INFORMATION

MOBILITY: READILY ABSORBED INTO SOIL.

PERSISTENCE AND DEGRADABILITY: MATERIAL IS READILY BIODEGRADABLE.

BIOACCUMULATIVE POTENTIAL: BIOACCUMULATION POTENTIAL IS LOW.

PBT IDENTIFICATION: THIS SUBSTANCE IS NOT IDENTIFIED AS A PBT SUBSTANCE.

13. DISPOSAL CONSIDERATIONS



DISPOSAL OPERATIONS:

TRANSFER TO A SUITABLE CONTAINER AND ARRANGE FOR COLLECTION BY SPECIALIZED DISPOSAL COMPANY.

NB:

THE USER'S ATTENTION IS DRAWN TO THE POSSIBLE EXISTENCE OF REGIONAL OR NATIONAL REGULATIONS REGARDING DISPOSAL.

14. TRANSPORT INFORMATION



DOT/IATA/IMDG/IACA CLASS: NOT A CONTROLLED MATERIAL.

PROVISIONS FOR TRANSPORT:

THIS PRODUCT CAN BE SHIPPED BY NORMAL METHODS OF TRANSPORTATION.

15. REGULATORY INFORMATION



NOTE:

THE REGULATORY INFORMATION GIVEN ABOVE ONLY INDICATES THE PRINCIPAL REGULATIONS SPECIFICALLY APPLICABLE TO THE PRODUCT DESCRIBED IN THE SAFETY DATA SHEET. THE USER'S ATTENTION IS DRAWN TO THE POSSIBLE EXISTENCE OF ADDITIONAL PROVISIONS WHICH COMPLETE THESE REGULATIONS. REFER TO ALL APPLICABLE NATIONAL, INTERNATIONAL AND LOCAL REGULATIONS OR PROVISIONS.

16. OTHER INFORMATION



OTHER INFORMATION:

ADDITIONAL INFORMATION ON THIS PRODUCT MAY BE OBTAINED BY CALLING YOUR SALES CONTACT.

LEGAL DISCLAIMER:

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. THIS COMPANY SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

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MSDS

Common Name: QUICKSCENT TOILET DEODORIZING SACHET**Manufacturer:** SATELLITE INDUSTRIES**MSDS Revision Date:** 4/26/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 18E902, 18E903**Manufacturer Model Number(s):**

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SATELLITE (R*)

SAFETY DATA SHEET

SATELLITE QUICKSCENT TOILET DEODORIZING SACHET

ISSUED: 4/26/2011

REVISION NO: 1

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE



COMPANY / UNDERTAKING

PRODUCT NAME: SATELLITE QUICKSCENT TOILET DEODORIZING SACHET

PRODUCT CODE: 1077

COMPANY NAME:
SATELLITE INDUSTRIES INC
2530 XENIUM LANE
MINNEAPOLIS
MINNESOTA 55441

USA

TEL: +18002334089

EMERGENCY TEL: +1.800.424.9300 CHEMTREC # 19618

EMAIL: OSCARM@SATELLITECO.COM

2. HAZARDS IDENTIFICATION



WORKPLACE EXPOSURE LIMIT:

THIS PRODUCT DOES NOT HAVE A WORKPLACE EXPOSURE LIMIT.

PBT: THIS SUBSTANCE IS NOT IDENTIFIED AS A PBT SUBSTANCE.

3. COMPOSITION / INFORMATION ON INGREDIENTS



COMPONENTS:

BRONOPOL (INN):

CAS: 52-51-7

SILICA:

CAS: 112926-00-8

4. FIRST AID MEASURES



SKIN CONTACT:

REMOVE ALL CONTAMINATED CLOTHES AND FOOTWEAR IMMEDIATELY UNLESS STUCK TO SKIN. DRENCH THE AFFECTED SKIN WITH RUNNING WATER FOR 15 MINUTES. CONSULT A DOCTOR.

EYE CONTACT:

BATHE THE EYE WITH RUNNING WATER FOR 15 MINUTES. CONSULT A DOCTOR.

INGESTION:

WASH OUT MOUTH WITH WATER. DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE WATER TO DRINK IMMEDIATELY. CONSULT A DOCTOR.

INHALATION: MOVE PERSON TO FRESH AIR. CONSULT A DOCTOR.

5. FIRE-FIGHTING MEASURES



EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING MEDIA FOR THE SURROUNDING FIRE SHOULD BE USED. USE WATER SPRAY TO COOL CONTAINERS.

EXPOSURE HAZARDS: IN COMBUSTION MAY EMIT TOXIC FUMES.

ADVICE FOR FIRE-FIGHTERS:

WEAR SELF-CONTAINED BREATHING APPARATUS. WEAR PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.



6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

REFER TO SECTION 8 OF SDS FOR PERSONAL PROTECTION DETAILS.

ENVIRONMENTAL PRECAUTIONS: DO NOT DISCHARGE INTO DRAINS OR RIVERS.

CLEAN-UP PROCEDURES:

TRANSFER TO A CLOSABLE, LABELED SALVAGE CONTAINER FOR DISPOSAL BY AN APPROPRIATE METHOD.

7. HANDLING AND STORAGE



HANDLING REQUIREMENTS:

AVOID DIRECT CONTACT WITH THE SUBSTANCE. ENSURE THERE IS SUFFICIENT VENTILATION OF THE AREA. DO NOT HANDLE IN A CONFINED SPACE. AVOID THE FORMATION OR SPREAD OF DUST IN THE AIR.

STORAGE CONDITIONS:

STORE IN COOL, WELL VENTILATED AREA. KEEP CONTAINER TIGHTLY CLOSED.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



HAZARDOUS INGREDIENTS:

SILICA:

OSHA - 8 HOUR TWA: 10 PPM (RESPIRABLE DUST)

ENGINEERING MEASURES: ENSURE THERE IS SUFFICIENT VENTILATION OF THE AREA.

RESPIRATORY PROTECTION:

SELF-CONTAINED BREATHING APPARATUS MUST BE AVAILABLE IN CASE OF EMERGENCY. RESPIRATORY PROTECTIVE DEVICE WITH PARTICLE FILTER.

HAND PROTECTION: PROTECTIVE GLOVES.

EYE PROTECTION: SAFETY GLASSES. ENSURE EYE BATH IS WITHIN CLOSE PROXIMITY.

SKIN PROTECTION: PROTECTIVE CLOTHING.

9. PHYSICAL AND CHEMICAL PROPERTIES



STATE: SOLID

COLOR: BLUE

ODOR: PLEASANT

SOLUBILITY IN WATER: HIGHLY SOLUBLE

10. STABILITY AND REACTIVITY



STABILITY: STABLE UNDER NORMAL CONDITIONS.

CONDITIONS TO AVOID: HEAT.

MATERIALS TO AVOID: STRONG OXIDIZING AGENTS. STRONG ACIDS.

HAZ. DECOMP. PRODUCTS: IN COMBUSTION MAY EMIT TOXIC FUMES.

11. TOXICOLOGICAL INFORMATION



ACUTE EFFECTS:

HARMFUL IN CONTACT WITH SKIN AND IF SWALLOWED. IRRITATING TO RESPIRATORY SYSTEM AND SKIN.

(SYMPTOMS):

SKIN CONTACT: THERE MAY BE IRRITATION AND REDNESS AT THE SITE OF CONTACT.

EYE CONTACT:

THERE MAY BE IRRITATION AND REDNESS. THE EYES MAY WATER PROFUSELY.

INGESTION:

THERE MAY BE SORENESS AND REDNESS OF THE MOUTH AND THROAT. NAUSEA AND STOMACH PAIN MAY OCCUR. THERE MAY BE VOMITING.

INHALATION:

THERE MAY BE IRRITATION OF THE THROAT WITH A FEELING OF TIGHTNESS IN THE CHEST.

12. ECOLOGICAL INFORMATION



PERSISTENCE AND DEGRADABILITY: BIODEGRADABLE.

BIOACCUMULATIVE POTENTIAL: NO BIOACCUMULATION POTENTIAL.

OTHER ADVERSE EFFECTS:

IN LARGE QUANTITIES MAY BE TOXIC TO AQUATIC AND SOIL ORGANISMS.

PBT IDENTIFICATION: THIS SUBSTANCE IS NOT IDENTIFIED AS A PBT SUBSTANCE.

13. DISPOSAL CONSIDERATIONS



DISPOSAL OPERATIONS:

TRANSFER TO A SUITABLE CONTAINER AND ARRANGE FOR COLLECTION BY SPECIALIZED DISPOSAL COMPANY.

NB:

THE USER'S ATTENTION IS DRAWN TO THE POSSIBLE EXISTENCE OF REGIONAL OR NATIONAL REGULATIONS REGARDING DISPOSAL.

14. TRANSPORT INFORMATION



DOT/IATA/IMDG:

UN NUMBER: NOT REGULATED.

PROVISIONS FOR TRANSPORT:

THIS PRODUCT CAN BE SHIPPED BY NORMAL METHODS OF TRANSPORTATION.

15. REGULATORY INFORMATION

NOTE:

THE REGULATORY INFORMATION GIVEN ABOVE ONLY INDICATES THE PRINCIPAL REGULATIONS SPECIFICALLY APPLICABLE TO THE PRODUCT DESCRIBED IN THE SAFETY DATA SHEET. THE USER'S ATTENTION IS DRAWN TO THE POSSIBLE EXISTENCE OF ADDITIONAL PROVISIONS WHICH COMPLETE THESE REGULATIONS. REFER TO ALL APPLICABLE NATIONAL, INTERNATIONAL AND LOCAL REGULATIONS OR PROVISIONS.

16. OTHER INFORMATION

LEGAL DISCLAIMER:

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. THIS COMPANY SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

[Close this window](#)

MSDS

Common Name: BIO QUICKSCENTS TOILET DEODORIZERS**Manufacturer:** SATELLITE INDUSTRIES**MSDS Revision Date:** 4/15/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 18E904**Manufacturer Model Number(s):**

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SATELLITE (R*)

SAFETY DATA SHEET

SATELLITE BIO QUICKSCENTS TOILET DEODORIZERS

ISSUED: 04/15/11

REVISION NO: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE



COMPANY / UNDERTAKING

PRODUCT NAME: SATELLITE BIO QUICKSCENTS TOILET DEODORIZERS

PRODUCT CODE: 1063

COMPANY NAME:
SATELLITE INDUSTRIES INC
2530 XENIUM LANE
MINNEAPOLIS
MINNESOTA 55441

USA

TEL: +18002334089

EMERGENCY TEL: +1.800.424.9300 CHEMTREC # 19618

EMAIL: MOREYO@SATELLITECO.COM

2. HAZARDS IDENTIFICATION



WORKPLACE EXPOSURE LIMIT:

THIS SUBSTANCE DOES NOT HAVE A WORKPLACE EXPOSURE LIMIT.

PBT: THIS SUBSTANCE IS NOT IDENTIFIED AS A PBT SUBSTANCE.

3. COMPOSITION / INFORMATION ON INGREDIENTS



COMPONENTS:

SODIUM NITRATE:

CAS: 7631-99-4

SILICA:

CAS: 112926-00-8

4. FIRST AID MEASURES



SKIN CONTACT:

WASH IMMEDIATELY WITH WATER FOR 15 MINUTES. CONSULT A DOCTOR.

EYE CONTACT:

BATHE THE EYE WITH RUNNING WATER FOR 15 MINUTES. CONSULT A DOCTOR.

INGESTION:

WASH OUT MOUTH WITH WATER. DO NOT INDUCE VOMITING. CONSULT A DOCTOR

INHALATION:

REMOVE FROM EXPOSURE AND MOVE TO FRESH AIR IMMEDIATELY. CONSULT A DOCTOR.

5. FIRE-FIGHTING MEASURES



EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING MEDIA FOR THE SURROUNDING FIRE SHOULD BE USED.

EXPOSURE HAZARDS: IN COMBUSTION EMITS MAY EMIT DANGEROUS FUMES.

PROTECTION OF FIRE-FIGHTERS:

WEAR SELF-CONTAINED BREATHING APPARATUS. WEAR PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS:

REFER TO SECTION 8 OF SDS FOR PERSONAL PROTECTION DETAILS.

ENVIRONMENTAL PRECAUTIONS: DO NOT DISCHARGE INTO DRAINS OR RIVERS.

CLEAN-UP PROCEDURES:

SHOVEL EXCESS INTO A SUITABLE CONTAINER FOR DISPOSAL BY AN APPROVED METHOD. THEN WASH THE SPILL SITE WITH LARGE AMOUNTS OF WATER.

7. HANDLING AND STORAGE

HANDLING REQUIREMENTS: AVOID THE FORMATION OR SPREAD OF DUST IN THE AIR.

STORAGE CONDITIONS: STORE IN COOL, WELL VENTILATED AREA.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS INGREDIENTS: SILICA (NOT RESPIRABLE)

OSHA PEL - 300 PPM (TWA)

RESPIRATORY PROTECTION: USE OF FACE MASK SUGGESTED, BUT NOT REQUIRED.

HAND PROTECTION: PROTECTIVE GLOVES SUGGESTED, BUT NOT REQUIRED.

EYE PROTECTION: SAFETY GLASSES SUGGESTED, BUT NOT REQUIRED.

SKIN PROTECTION: APPROPRIATE PROTECTIVE CLOTHING SHOULD BE WORN.

9. PHYSICAL AND CHEMICAL PROPERTIES

STATE: POWDER

COLOUR: BLUE

ODOUR: PLEASANT

SOLUBILITY IN WATER: HIGHLY SOLUBLE

10. STABILITY AND REACTIVITY

STABILITY: STABLE UNDER NORMAL CONDITIONS.

CONDITIONS TO AVOID: HEAT.

MATERIALS TO AVOID: STRONG ACIDS.

11. TOXICOLOGICAL INFORMATION

(SYMPTOMS) :

SKIN CONTACT: THERE MAY BE MILD IRRITATION AT THE SITE OF CONTACT.

EYE CONTACT: THERE MAY BE IRRITATION AND REDNESS.

INGESTION: THERE MAY BE IRRITATION OF THE THROAT.

INHALATION:

THERE MAY BE IRRITATION OF THE THROAT WITH A FEELING OF TIGHTNESS IN THE CHEST.

12. ECOLOGICAL INFORMATION



PERSISTENCE AND DEGRADABILITY: BIODEGRADABLE.

BIOACCUMULATIVE POTENTIAL: NO BIOACCUMULATION POTENTIAL.

OTHER ADVERSE EFFECTS: NEGLIGIBLE ECOTOXICITY.

PBT IDENTIFICATION: THIS SUBSTANCE IS NOT IDENTIFIED AS A PBT SUBSTANCE.

13. DISPOSAL CONSIDERATIONS



DISPOSAL OPERATIONS:

TRANSFER TO A SUITABLE CONTAINER AND ARRANGE FOR COLLECTION BY SPECIALIZED DISPOSAL COMPANY.

NB:

THE USER'S ATTENTION IS DRAWN TO THE POSSIBLE EXISTENCE OF REGIONAL OR NATIONAL REGULATIONS REGARDING DISPOSAL.

14. TRANSPORT INFORMATION



DOT/IMDG/IMO/IATA/IACO:

UN NO: NOT REGULATED.

15. REGULATORY INFORMATION



NOTE:

THE REGULATORY INFORMATION GIVEN ABOVE ONLY INDICATES THE PRINCIPAL REGULATIONS SPECIFICALLY APPLICABLE TO THE PRODUCT DESCRIBED IN THE SAFETY DATA SHEET. THE USER'S ATTENTION IS DRAWN TO THE POSSIBLE EXISTENCE OF ADDITIONAL PROVISIONS WHICH COMPLETE THESE REGULATIONS. REFER TO ALL APPLICABLE NATIONAL, INTERNATIONAL AND LOCAL REGULATIONS OR PROVISIONS.

16. OTHER INFORMATION



LEGAL DISCLAIMER:

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. THIS COMPANY SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

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MSDS

Common Name: CABANA SPRAYS - ALL SCENTS**Manufacturer:** SATELLITE INDUSTRIES**MSDS Revision Date:** 4/12/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 18E908, 18E909, 18E910, 18E911, 18E912, 18E913, 18E914, 18E915, 18E916, 18E917, 18E918, 18E919**Manufacturer Model Number(s):**

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SATELLITE (R*)

SAFETY DATA SHEET

SATELLITE CABANA SPRAYS - ALL SCENTS

ISSUED: 4/12/2011

REVISION NO: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE



COMPANY / UNDERTAKING

PRODUCT NAME: SATELLITE CABANA SPRAYS - ALL SCENTS

PRODUCT CODE: 1064

COMPANY NAME:
SATELLITE INDUSTRIES INC
2530 XENIUM LANE
MINNEAPOLIS
MINNESOTA 55441

USA

TEL: +18002334089

EMERGENCY TEL: +1.800.424.9300 CHEMTREC # 19618

EMAIL: MOREYO@SATELLITECO.COM

2. HAZARDS IDENTIFICATION



WORKPLACE EXPOSURE LIMIT:

THIS SUBSTANCE DOES NOT HAVE A WORKPLACE EXPOSURE LIMIT.

PBT: THIS SUBSTANCE IS NOT IDENTIFIED AS A PBT SUBSTANCE.

3. COMPOSITION / INFORMATION ON INGREDIENTS



COMPONENTS:

DIPROPYLENE GLYCOL:

CAS: 25265-71-8

TERGITOL NP, 9.5:

CAS: 68439-46-3

4. FIRST AID MEASURES



SKIN CONTACT:

WASH IMMEDIATELY WITH PLENTY OF SOAP AND WATER. CONSULT A DOCTOR.

EYE CONTACT:

BATHE THE EYE WITH RUNNING WATER FOR 15 MINUTES. CONSULT A DOCTOR.

INGESTION: WASH OUT MOUTH WITH WATER. CONSULT A DOCTOR.

INHALATION: CONSULT A DOCTOR.

5. FIRE-FIGHTING MEASURES



EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING MEDIA FOR THE SURROUNDING FIRE SHOULD BE USED. USE WATER SPRAY TO COOL CONTAINERS.

PRODUCTS OF COMBUSTION: IN COMBUSTION EMITS CARBON OXIDES (CO, CO2)

PROTECTION OF FIRE-FIGHTERS: WEAR SUITABLE EQUIPMENT.

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS:

REFER TO SECTION 8 OF SDS FOR PERSONAL PROTECTION DETAILS. TURN LEAKING CONTAINERS LEAK-SIDE UP TO PREVENT THE ESCAPE OF LIQUID.

ENVIRONMENTAL PRECAUTIONS:

DO NOT DISCHARGE INTO DRAINS OR RIVERS. CONTAIN THE SPILLAGE USING BUNDING.

CLEAN-UP PROCEDURES:

ABSORB INTO DRY EARTH OR VERMICULITE. TRANSFER TO A CLOSABLE, LABELED SALVAGE CONTAINER FOR DISPOSAL BY AN APPROPRIATE METHOD.

7. HANDLING AND STORAGE**HANDLING REQUIREMENTS:**

ENSURE THERE IS SUFFICIENT VENTILATION OF THE AREA. DO NOT HANDLE IN A CONFINED SPACE. AVOID THE FORMATION OR SPREAD OF MISTS IN THE AIR.

STORAGE CONDITIONS:

STORE IN COOL, WELL VENTILATED AREA. KEEP CONTAINER TIGHTLY CLOSED.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES: ENSURE THERE IS SUFFICIENT VENTILATION OF THE AREA.

RESPIRATORY PROTECTION: RESPIRATORY PROTECTION NOT REQUIRED.

HAND PROTECTION: PROTECTIVE GLOVES.

EYE PROTECTION: SAFETY GLASSES. ENSURE EYE BATH IS WITHIN CLOSE PROXIMITY.

SKIN PROTECTION: PROTECTIVE CLOTHING.

9. PHYSICAL AND CHEMICAL PROPERTIES

STATE: LIQUID

COLOUR: COLORLESS

ODOUR: PLEASANT

SOLUBILITY IN WATER: SOLUBLE

VISCOSITY: NON-VISCOUS

RELATIVE DENSITY: 1.0252

10. STABILITY AND REACTIVITY

STABILITY: STABLE UNDER NORMAL CONDITIONS.

CONDITIONS TO AVOID: HEAT.

MATERIALS TO AVOID: STRONG OXIDIZING AGENTS.

HAZ. DECOMP. PRODUCTS: IN COMBUSTION EMITS CARBON OXIDES (CO, CO2)

11. TOXICOLOGICAL INFORMATION



SKIN CONTACT: THERE MAY BE MILD IRRITATION AT THE SITE OF CONTACT.

EYE CONTACT: THERE MAY BE IRRITATION AND REDNESS.

INGESTION: THERE MAY BE IRRITATION OF THE THROAT.

INHALATION: NO SYMPTOMS.

12. ECOLOGICAL INFORMATION



MOBILITY: READILY ABSORBED INTO SOIL.

PERSISTENCE AND DEGRADABILITY: BIODEGRADABLE.

BIOACCUMULATIVE POTENTIAL: NO BIOACCUMULATION POTENTIAL.

OTHER ADVERSE EFFECTS: NEGLIGIBLE ECOTOXICITY.

PBT IDENTIFICATION: THIS SUBSTANCE IS NOT IDENTIFIED AS A PBT SUBSTANCE.

13. DISPOSAL CONSIDERATIONS



DISPOSAL OPERATIONS:

TRANSFER TO A SUITABLE CONTAINER AND ARRANGE FOR COLLECTION BY SPECIALIZED DISPOSAL COMPANY.

NB:

THE USER'S ATTENTION IS DRAWN TO THE POSSIBLE EXISTENCE OF REGIONAL OR NATIONAL REGULATIONS REGARDING DISPOSAL.

14. TRANSPORT INFORMATION



DOT/IATA/IMDG/IACA CLASS: NOT A CONTROLLED MATERIAL.

PROVISIONS FOR TRANSPORT:

THIS PRODUCT CAN BE SHIPPED BY NORMAL METHODS OF TRANSPORTATION.

15. REGULATORY INFORMATION



HAZARD SYMBOLS: NO SIGNIFICANT HAZARD.

NOTE:

THE REGULATORY INFORMATION GIVEN ABOVE ONLY INDICATES THE PRINCIPAL REGULATIONS SPECIFICALLY APPLICABLE TO THE PRODUCT DESCRIBED IN THE SAFETY DATA SHEET. THE USER'S ATTENTION IS DRAWN TO THE POSSIBLE EXISTENCE OF ADDITIONAL PROVISIONS WHICH COMPLETE THESE REGULATIONS. REFER TO ALL APPLICABLE NATIONAL, INTERNATIONAL AND LOCAL REGULATIONS OR PROVISIONS.

16. OTHER INFORMATION



LEGAL DISCLAIMER:

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. THE COMPANY SHALL NOT BE HELD LIABLE FOR ANY DAMAGES RESULTING FROM HANDLING OR CONTACT WITH THE ABOVE PRODUCT.

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MSDS

Common Name: INDUSTRIAL DEGREASER**Manufacturer:** SATELLITE INDUSTRIES**MSDS Revision Date:** 5/10/2011**MSDS Format:** No Format Specified**Grainger Item Number(s):** 18E922, 18E923, 18E924, 18E925**Manufacturer Model Number(s):**

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SATELLITE (R*)

SAFETY DATA SHEET

SATELLITE INDUSTRIAL DEGREASER

ISSUED: 5/10/11

REVISION NO: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE



COMPANY / UNDERTAKING

PRODUCT NAME: SATELLITE INDUSTRIAL DEGREASER

PRODUCT CODE: 1069

COMPANY NAME:

SATELLITE INDUSTRIES INC

2530 XENIUM LANE

MINNEAPOLIS MINNESOTA 55441

USA

TEL: +18002334089

EMERGENCY TEL: +1.800.424.9300 CHEMTREC # 19618

EMAIL: MOREYO@SATELLITECO.COM

2. HAZARDS IDENTIFICATION



WORKPLACE EXPOSURE LIMIT:

THIS SUBSTANCE DOES NOT HAVE A WORKPLACE EXPOSURE LIMIT.

PBT: THIS SUBSTANCE IS NOT IDENTIFIED AS A PBT SUBSTANCE.

3. COMPOSITION / INFORMATION ON INGREDIENTS



COMPONENTS:

DISODIUM METASILICATE:

CAS: 6834-92-0

2-BUTOXYETHANOL:

CAS: 111-76-2

TOMADOL 900:

CAS: 68439-46-3

4. FIRST AID MEASURES



SKIN CONTACT:

WASH IMMEDIATELY WITH WATER FOR 15 MINUTES. CONSULT A DOCTOR.

EYE CONTACT:

BATHE THE EYE WITH RUNNING WATER FOR 15 MINUTES. CONSULT A DOCTOR.

INGESTION:

WASH OUT MOUTH WITH WATER. DO NOT INDUCE VOMITING. CONSULT A DOCTOR.

INHALATION: REMOVE PERSON TO FRESH AIR. CONSULT A DOCTOR.

5. FIRE-FIGHTING MEASURES



EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING MEDIA FOR THE SURROUNDING FIRE SHOULD BE USED. USE WATER SPRAY TO COOL CONTAINERS.

EXPOSURE HAZARDS: IN COMBUSTION MAY EMIT TOXIC FUMES.

PROTECTION OF FIRE-FIGHTERS:

WEAR SELF-CONTAINED BREATHING APPARATUS. WEAR PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS:

REFER TO SECTION 8 OF SDS FOR PERSONAL PROTECTION DETAILS. TURN LEAKING CONTAINERS LEAK-SIDE UP TO PREVENT THE ESCAPE OF LIQUID.

ENVIRONMENTAL PRECAUTIONS:

DO NOT DISCHARGE INTO DRAINS OR RIVERS. CONTAIN THE SPILLAGE USING BUNDING.

CLEAN-UP PROCEDURES:

ABSORB INTO DRY EARTH OR SAND. TRANSFER TO A CLOSABLE, LABELED SALVAGE CONTAINER FOR DISPOSAL BY AN APPROPRIATE METHOD.

7. HANDLING AND STORAGE**HANDLING REQUIREMENTS:**

AVOID DIRECT CONTACT WITH THE SUBSTANCE. ENSURE THERE IS SUFFICIENT VENTILATION OF THE AREA. DO NOT HANDLE IN A CONFINED SPACE

STORAGE CONDITIONS:

STORE IN COOL, WELL VENTILATED AREA. KEEP CONTAINER TIGHTLY CLOSED.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**HAZARDOUS INGREDIENTS:****2-BUTOXYETHANOL:**

OSHA PEL - 50 PPM (TWA)

ACGIH TLV - 50 PPM (TWA)

ENGINEERING MEASURES: ENSURE THERE IS SUFFICIENT VENTILATION OF THE AREA.

RESPIRATORY PROTECTION: RESPIRATORY PROTECTION ADVISED, BUT NOT REQUIRED.

HAND PROTECTION: PROTECTIVE GLOVES.

EYE PROTECTION: SAFETY GLASSES. ENSURE EYE BATH IS WITHIN CLOSE PROXIMITY.

SKIN PROTECTION: PROTECTIVE CLOTHING.

9. PHYSICAL AND CHEMICAL PROPERTIES

STATE: LIQUID

COLOR: OFF-WHITE

ODOR: PLEASANT

SOLUBILITY IN WATER: SOLUBLE

VISCOSITY: NON-VISCOUS

RELATIVE DENSITY: 1.03



10. STABILITY AND REACTIVITY

STABILITY: STABLE UNDER NORMAL CONDITIONS.

CONDITIONS TO AVOID: HEAT.

MATERIALS TO AVOID: STRONG OXIDIZING AGENTS. STRONG ACIDS.

HAZ. DECOMP. PRODUCTS: IN COMBUSTION MAY EMIT TOXIC FUMES.

11. TOXICOLOGICAL INFORMATION



(SYMPTOMS):

SKIN CONTACT: THERE MAY BE MILD IRRITATION AT THE SITE OF CONTACT.

EYE CONTACT: THERE MAY BE IRRITATION AND REDNESS.

INGESTION: THERE MAY BE IRRITATION OF THE THROAT.

INHALATION: SHORTNESS OF BREATH.

12. ECOLOGICAL INFORMATION



MOBILITY: READILY ABSORBED INTO SOIL.

PERSISTENCE AND DEGRADABILITY: BIODEGRADABLE.

BIOACCUMULATIVE POTENTIAL: NO BIOACCUMULATION POTENTIAL.

OTHER ADVERSE EFFECTS: NEGLIGIBLE ECOTOXICITY.

PBT IDENTIFICATION: THIS SUBSTANCE IS NOT IDENTIFIED AS A PBT SUBSTANCE.

13. DISPOSAL CONSIDERATIONS



DISPOSAL OPERATIONS:

TRANSFER TO A SUITABLE CONTAINER AND ARRANGE FOR COLLECTION BY SPECIALIZED DISPOSAL COMPANY.

NB:

THE USER'S ATTENTION IS DRAWN TO THE POSSIBLE EXISTENCE OF REGIONAL OR NATIONAL REGULATIONS REGARDING DISPOSAL.

14. TRANSPORT INFORMATION



DOT/IATA/IMDG/IACA CLASS: NOT A CONTROLLED MATERIAL.

PROVISIONS FOR TRANSPORT:

THIS PRODUCT CAN BE SHIPPED BY NORMAL METHODS OF TRANSPORTATION.

15. REGULATORY INFORMATION



HAZARD SYMBOLS: NO SIGNIFICANT HAZARD.

NOTE:

THE REGULATORY INFORMATION GIVEN ABOVE ONLY INDICATES THE PRINCIPAL REGULATIONS SPECIFICALLY APPLICABLE TO THE PRODUCT DESCRIBED IN THE SAFETY DATA SHEET. THE USER'S ATTENTION IS DRAWN TO THE POSSIBLE EXISTENCE OF ADDITIONAL PROVISIONS WHICH COMPLETE THESE REGULATIONS. REFER TO ALL APPLICABLE NATIONAL, INTERNATIONAL AND LOCAL REGULATIONS OR PROVISIONS.

16. OTHER INFORMATION

LEGAL DISCLAIMER:

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. THIS COMPANY SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

[Close this window](#)

MSDS

Common Name: GLASS CLEANER CONCENTRATE**Manufacturer:** ZEP MANUFACTURING**MSDS Revision Date:** 8/5/2008**MSDS Format:** No Format Specified**Grainger Item Number(s):** 22C664, 3HUT7, 3HUT8, 9PWX6, 9UY78**Manufacturer Model Number(s):**

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ZEP PROFESSIONAL

MATERIAL SAFETY DATA SHEET

ZEP INC.

1310 SEABOARD INDUSTRIAL BLVD.

ATLANTA, GA 30318

1-877-793-7776

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: GLASS CLEANER CONCENTRATE

PRODUCT USE: CONCENTRATED GLASS CLEANER

PRODUCT CODE: R045

DATE OF ISSUE: 08/05/08

SUPERSEDES:

EMERGENCY TELEPHONE NUMBERS:

FOR MSDS INFORMATION:

COMPLIANCE SERVICES: 1-877-793-7776

FOR MEDICAL EMERGENCY:

INFOTRAC: (877) 541-2016 TOLL FREE - ALL CALLS RECORDED

FOR TRANSPORTATION EMERGENCY:

CHEMTREC: (800) 424-9300 - ALL CALLS RECORDED

IN THE DISTRICT OF COLUMBIA: (202) 483-7616

PREPARED BY:

COMPLIANCE SERVICES

1420 SEABOARD INDUSTRIAL BLVD.

ATLANTA, GA 30318

SECTION 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING!

FLAMMABLE. CAUSES EYE IRRITATION.

*HAZARD DETERMINATION SYSTEM (HDS):

HEALTH 1

FLAMMABILITY 3

REACTIVITY 0

NOTE:

MSDS DATA PERTAINS TO THE PRODUCT AS DELIVERED IN THE ORIGINAL SHIPPING CONTAINER(S). RISK OF ADVERSE EFFECTS ARE LESSENERED BY FOLLOWING ALL PRESCRIBED SAFETY PRECAUTIONS, INCLUDING THE USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT.

ROUTES OF ENTRY: EYE CONTACT. SKIN CONTACT INHALATION.

ACUTE EFFECTS:

EYES:

CAUSES EYE IRRITATION. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING AND ITCHING.

SKIN: PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

INHALATION:

AVOID BREATHING VAPORS, SPRAY OR MISTS. OVER-EXPOSURE BY INHALATION MAY CAUSE RESPIRATORY IRRITATION. CAN CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

INGESTION: INGESTION MAY CAUSE GASTROINTESTINAL IRRITATION AND DIARRHEA.

CHRONIC EFFECTS:

CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: KIDNEYS, LIVER, CENTRAL NERVOUS SYSTEM (CNS).

ADDITIONAL INFORMATION: SEE TOXICOLOGICAL INFORMATION (SECTION 11)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

ETHANOL; ETHYL ALCOHOL; GRAIN ALCOHOL	64-17-5	20 - 30
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE; ETHYLENEDIAMINE TETRAACETIC ACID; TETRASODIUM SALT	64-02-8	<10

SECTION 4. FIRST AID MEASURES



EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. CHECK FOR AND REMOVE ANY CONTACT LENSES. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

FLUSH CONTAMINATED SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. CONTINUE TO RINSE FOR AT LEAST 10 MINUTES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INHALATION:

MOVE EXPOSED PERSON TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. IF VOMITING OCCURS, THE HEAD SHOULD BE KEPT LOW SO THAT VOMIT DOES NOT ENTER THE LUNGS. IF AFFECTED PERSON IS CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5. FIRE FIGHTING MEASURES



NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

1
3
0

FLASH POINT:

CLOSED CUP: 27.8 DEG. C (82 DEG. F) (TAGLIABUE.)

FLAMMABLE LIMITS:

LOWER: 1%
UPPER: 12%

FLAMMABILITY:

FLAMMABLE IN THE PRESENCE OF THE FOLLOWING MATERIALS OR CONDITIONS:
OPEN FLAMES, SPARKS AND STATIC DISCHARGE AND HEAT.

FIRE HAZARD:

FLAMMABLE LIQUID AND VAPOR. VAPORS MAY ACCUMULATE IN LOW OR CONFINED AREAS OR TRAVEL A CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. IN A FIRE OR IF HEATED, A PRESSURE INCREASE WILL OCCUR AND THE CONTAINER MAY BURST, WITH THE RISK OF A SUBSEQUENT EXPLOSION.

FIRE-FIGHTING PROCEDURES:

USE DRY CHEMICAL, CO₂, WATER SPRAY (FOG) OR FOAM. DO NOT RELEASE RUNOFF FROM FIRE TO SEWERS OR WATERWAYS.



SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP:

ELIMINATE ALL IGNITION SOURCES. PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. DILUTE WITH WATER AND MOP UP IF WATER-SOLUBLE OR ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER.

SECTION 7. HANDLING AND STORAGE



HANDLING:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME OR ANY OTHER IGNITION SOURCE. DO NOT GET IN EYES OR ON SKIN OR CLOTHING. DO NOT BREATHE VAPOR OR MIST. DO NOT INGEST. USE ONLY WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. DO NOT REUSE CONTAINER.

STORAGE:

ELIMINATE ALL IGNITION SOURCES. STORE IN ORIGINAL CONTAINER PROTECTED FROM DIRECT SUNLIGHT IN A DRY, COOL AND WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10) AND FOOD AND DRINK. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE.

STORE BETWEEN THE FOLLOWING TEMPERATURES:

40 DEG. F - 120 DEG. F (4.4 DEG. C - 49 DEG. C). KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



PRODUCT NAME	EXPOSURE LIMITS
ETHANOL; ETHYL ALCOHOL; GRAIN ALCOHOL	ACGIH TLV / OSHA PEL (UNITED STATES). TWA: 1000 PPM 8 HOUR(S).

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYES: SAFETY GLASSES.

BODY: FOR PROLONGED OR REPEATED HANDLING, USE GLOVES.
RECOMMENDED: NEOPRENE GLOVES. RUBBER GLOVES. NITRILE GLOVES.

RESPIRATORY:

USE WITH ADEQUATE VENTILATION. PROVIDE EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP THE AIRBORNE CONCENTRATIONS OF VAPORS BELOW THEIR RESPECTIVE OCCUPATIONAL EXPOSURE LIMITS.

SAFETY GLASSES
GLOVES

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID.

COLOR: CLEAR. BLUE.

pH: 7.0-7.5

ODOR: ROSE.

BOILING POINT: 100 DEG. C (212 DEG. F)

VAPOR PRESSURE: NOT DETERMINED.

SPECIFIC GRAVITY: 0.97

VAPOR DENSITY: NOT DETERMINED.

SOLUBILITY:

EASILY SOLUBLE IN THE FOLLOWING MATERIALS: COLD WATER AND HOT WATER.

EVAPORATION RATE: 1 (WATER = 1)

VOC (CONSUMER):

192.69 (G/L) .

1.61 LBS/GAL

(19.94%)

SECTION 10. STABILITY AND REACTIVITY



STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY:

KEEP AWAY FROM HEAT, SPARKS AND FLAME. REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS: OXIDIZING MATERIALS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES (CO, CO2)

SECTION 11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
ETHANOL	LD50 ORAL	RAT	7060 MG/KG	
	LC50 INHALATION VAPOR	RAT	20000 MG/M3	4 HOURS
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE	LD50 ORAL	RAT	4100 MG/KG	

SECTION 12. ECOLOGICAL INFORMATION



ENVIRONMENTAL EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

AQUATIC ECOTOXICITY: NOT AVAILABLE.

SECTION 13. DISPOSAL CONSIDERATIONS



WASTE INFORMATION:

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES FOR ADDITIONAL INFORMATION.

WASTE STREAM:

CODE: (NONE.)

CLASSIFICATION: (NON-HAZARDOUS WASTE)

SECTION 14. TRANSPORT INFORMATION

REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PG*	LABEL
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DOT CLASSIFICATION	NOT REGULATED.	NOT A DOT CONTROLLED MATERIAL (UNITED STATES).			
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IMDG CLASS	NOT DETERMINED.
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NOTE:

DOT CLASSIFICATION APPLIES TO MOST PACKAGE SIZES. FOR SPECIFIC CONTAINER SIZE CLASSIFICATIONS OR FOR SIZE EXCEPTIONS, REFER TO THE BILL OF LADING WITH YOUR SHIPMENT.

PG*: PACKING GROUP

SECTION 15. REGULATORY INFORMATION**U.S. FEDERAL REGULATIONS:**

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:
NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 307: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 311: NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES: NO PRODUCTS WERE FOUND.

ALL COMPONENTS OF THIS PRODUCT ARE LISTED OR EXEMPT FROM LISTING ON TSCA INVENTORY.

STATE REGULATIONS:

CALIFORNIA PROP 65: NO PRODUCTS WERE FOUND.

SECTION 16. OTHER INFORMATION

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS SUBSIDIARIES ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED

HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

*NOTE:

HAZARD DETERMINATION SYSTEM (HDS) RATINGS ARE BASED ON A 0-4 RATING SCALE, WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS ALTHOUGH THESE RATINGS ARE NOT REQUIRED ON MSDSS UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM. HDS RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED PROGRAM TO RELAY THE MEANINGS OF THIS SCALE.

[Close this window](#)

MSDS

Common Name: GLASS CLEANER R.T.U.**Manufacturer:** ZEP MANUFACTURING**MSDS Revision Date:** 8/12/2008**MSDS Format:** No Format Specified**Grainger Item Number(s):** 3HUT9, 3HUU1, 9DNF5, 9JVZ4**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

ZEP PROFESSIONAL

ZEP INC.

1310 SEABOARD INDUSTRIAL BLVD.

ATLANTA, GA 30318

1-877-793-7776

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME GLASS CLEANER R.T.U.

PRODUCT USE: GLASS CLEANER

PRODUCT CODE: R046

DATE OF ISSUE: 08/12/08

SUPERSEDES:

EMERGENCY TELEPHONE NUMBERS:

FOR MSDS INFORMATION:

COMPLIANCE SERVICES: 1-877-793-7776

FOR MEDICAL EMERGENCY:

INFOTRAC: (877) 541-2016 TOLL FREE - ALL CALLS RECORDED

FOR TRANSPORTATION EMERGENCY:

CHEMTREC: (800) 424-9300 - ALL CALLS RECORDED

IN THE DISTRICT OF COLUMBIA: (202) 483-7616

PREPARED BY:

COMPLIANCE SERVICES

1420 SEABOARD INDUSTRIAL BLVD.

ATLANTA, GA 30318

SECTION 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING!

COMBUSTIBLE. CAUSES EYE IRRITATION.

*HAZARD DETERMINATION SYSTEM (HDS):

HEALTH 1

FLAMMABILITY 2

REACTIVITY 0

NOTE:

MSDS DATA PERTAINS TO THE PRODUCT AS DELIVERED IN THE ORIGINAL SHIPPING CONTAINER(S). RISK OF ADVERSE EFFECTS ARE LESSENER BY FOLLOWING ALL PRESCRIBED SAFETY PRECAUTIONS, INCLUDING THE USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT.

ACUTE EFFECTS:

ROUTES OF ENTRY: ABSORBED THROUGH SKIN. EYE CONTACT. INHALATION.

EYES:

CAUSES EYE IRRITATION. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING AND ITCHING.

SKIN:

MAY CAUSE SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, OR REDDENING.

INHALATION:

AVOID BREATHING VAPORS, SPRAY OR MISTS. OVER-EXPOSURE BY INHALATION MAY CAUSE RESPIRATORY IRRITATION. CAN CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

INGESTION:

MAY BE HARMFUL IF SWALLOWED. ASPIRATION HAZARD IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE.

CHRONIC EFFECTS:

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. OVEREXPOSURE OF THIS PRODUCT BY INHALATION OR ABSORPTION CAN PRODUCE CENTRAL NERVOUS SYSTEM DEPRESSION RESULTING IN HEADACHE, NAUSEA AND/OR DIZZINESS.

CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS:
BLOOD, KIDNEYS, LIVER, UPPER RESPIRATORY TRACT, SKIN, EYES, CENTRAL NERVOUS
SYSTEM (CNS).

CARCINOGENICITY INGREDIENTS: NOT LISTED AS CARCINOGEN BY OSHA, NTP OR IARC.

ADDITIONAL INFORMATION: SEE TOXICOLOGICAL INFORMATION (SECTION 11)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



NAME OF HAZARDOUS INGREDIENTS	CAS NUMBER	% BY WEIGHT
ETHANOL; ETHYL ALCOHOL; GRAIN ALCOHOL	64-17-5	1 - 10
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-BUTOXYETHANOL; BUTYL CELLOSOLVE	111-76-2	1 - 5

SECTION 4. FIRST AID MEASURES



EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER, OCCASIONALLY LIFTING THE UPPER
AND LOWER EYELIDS. CHECK FOR AND REMOVE ANY CONTACT LENSES. CONTINUE TO
RINSE FOR AT LEAST 10 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

RINSE WITH PLENTY OF RUNNING WATER. REMOVE CONTAMINATED CLOTHING AND SHOES.
CONTINUE TO RINSE FOR AT LEAST 10 MINUTES. WASH CLOTHING BEFORE REUSE. GET
MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INHALATION:

MOVE EXPOSED PERSON TO FRESH AIR. IF IRRITATION PERSISTS, GET MEDICAL
ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. IF
VOMITING OCCURS, THE HEAD SHOULD BE KEPT LOW SO THAT VOMIT DOES NOT ENTER
THE LUNGS. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF
AFFECTED PERSON IS CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. GET MEDICAL
ATTENTION IMMEDIATELY.

SECTION 5. FIRE FIGHTING MEASURES



FLASH POINT:

CLOSED CUP: 67.8 DEG. C (154 DEG. F) (TAGLIABUE.)

FLAMMABLE LIMITS: NOT DETERMINED.

FLAMMABILITY: COMBUSTIBLE.

FIRE HAZARD:

COMBUSTIBLE LIQUID. IN A FIRE OR IF HEATED, A PRESSURE INCREASE WILL OCCUR
AND THE CONTAINER MAY BURST, WITH THE RISK OF A SUBSEQUENT EXPLOSION.

FIRE-FIGHTING PROCEDURES:

USE DRY CHEMICAL, CO₂, WATER SPRAY (FOG) OR FOAM. FIRE-FIGHTERS SHOULD WEAR
APPROPRIATE PROTECTIVE EQUIPMENT.

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.)

1
2
0

SECTION 6. ACCIDENTAL RELEASE MEASURES



SPILL CLEAN UP:

ELIMINATE ALL IGNITION SOURCES. PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). DILUTE WITH WATER AND MOP UP IF WATER-SOLUBLE OR ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER.

SECTION 7. HANDLING AND STORAGE



HANDLING:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME OR ANY OTHER IGNITION SOURCE. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPORS, SPRAY OR MISTS. USE ONLY WITH ADEQUATE VENTILATION. DO NOT INGEST. OBSERVE LABEL PRECAUTIONS. WASH THOROUGHLY AFTER HANDLING. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS. DO NOT REUSE CONTAINER.

STORAGE:

STORE IN ORIGINAL CONTAINER PROTECTED FROM DIRECT SUNLIGHT IN A DRY, COOL AND WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10) AND FOOD AND DRINK. ELIMINATE ALL IGNITION SOURCES. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



PRODUCT NAME

EXPOSURE LIMITS

ETHANOL; ETHYL ALCOHOL; GRAIN
ALCOHOL

ACGIH TLV/OSHA PEL (UNITED STATES).
TWA: 1000 PPM 8 HOUR(S).

ETHYLENE GLYCOL MONOBUTYL ETHER; 2-
BUTOXYETHANOL; BUTYL CELLOSOLVE

ACGIH TLV (UNITED STATES).
TWA: 20 PPM 8 HOUR(S).
FORM:

OSHA PEL (UNITED STATES). SKIN
TWA: 50 PPM 8 HOUR(S).
FORM:

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYES: SAFETY GLASSES.

BODY: FOR PROLONGED OR REPEATED HANDLING, USE GLOVES.

RECOMMENDED: NEOPRENE GLOVES. NITRILE GLOVES. RUBBER GLOVES.

RESPIRATORY:

USE WITH ADEQUATE VENTILATION. A RESPIRATOR IS NOT NEEDED UNDER NORMAL AND INTENDED CONDITIONS OF PRODUCT USE.

SAFETY GLASSES
GLOVES

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID.

COLOR: CLEAR. BLUE. (LIGHT)

pH: 10.5 - 11.5

ODOR: PLEASANT.

BOILING POINT: 100 DEG. C (212 DEG. F)

VAPOR PRESSURE: NOT DETERMINED.

SPECIFIC GRAVITY: 0.99

VAPOR DENSITY: NOT DETERMINED.

SOLUBILITY:

EASILY SOLUBLE IN THE FOLLOWING MATERIALS: COLD WATER AND HOT WATER.

EVAPORATION RATE: 1 (WATER = 1)

VOC (CONSUMER):

39 (G/L).

0.33 LBS/GAL (3.95%)

SECTION 10. STABILITY AND REACTIVITY



STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY:

KEEP AWAY FROM HEAT, SPARKS AND FLAME. SLIGHTLY REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS: OXIDIZING MATERIALS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES (CO, CO2)

SECTION 11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
ETHANOL	LD50 ORAL	RAT	7060 MG/KG	
	LC50 INHALATION VAPOR	RAT	20000 MG/M3	4 HOURS
ETHYLENE GLYCOL MONOBUTYL ETHER	LD50 DERMAL	RABBIT	680 MG/KG	
	LD50 ORAL	RAT	1746 MG/KG	
	LC50 INHALATION VAPOR	RAT	450 PPM	4 HOURS

SECTION 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

AQUATIC ECOTOXICITY: NOT AVAILABLE.

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE INFORMATION:

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES FOR ADDITIONAL INFORMATION.

WASTE STREAM: NON-HAZARDOUS WASTE

SECTION 14. TRANSPORT INFORMATION

REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PG*	LABEL
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DOT CLASSIFICATION	NOT APPLICABLE.	NOT A DOT CONTROLLED MATERIAL (UNITED STATES) .			
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IMDG CLASS	NOT DETERMINED.				
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NOTE:

DOT CLASSIFICATION APPLIES TO MOST PACKAGE SIZES. FOR SPECIFIC CONTAINER SIZE CLASSIFICATIONS OR FOR SIZE EXCEPTIONS, REFER TO THE BILL OF LADING WITH YOUR SHIPMENT.

PG*: PACKING GROUP

SECTION 15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:

PRODUCT NAME: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 307: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 311: NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES: NO PRODUCTS WERE FOUND.

ALL COMPONENTS OF THIS PRODUCT ARE LISTED OR EXEMPT FROM LISTING ON TSCA INVENTORY.

STATE REGULATIONS:

CALIFORNIA PROP 65: NO PRODUCTS WERE FOUND.

**SECTION 16. OTHER INFORMATION**

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS SUBSIDIARIES ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

***NOTE:**

HAZARD DETERMINATION SYSTEM (HDS) RATINGS ARE BASED ON A 0-4 RATING SCALE, WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS ALTHOUGH THESE RATINGS ARE NOT REQUIRED ON MSDSS UNDER 29 CFR 1910.1200. THE PREPARER MAY CHOOSE TO PROVIDE THEM. HDS RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED PROGRAM TO RELAY THE MEANINGS OF THIS SCALE.