SAFETY DATA SHEET

Preparation Date: Dec 15, 2014
Supersedes Date: Jul 27, 2012 **Version Number:** 09

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER

Product Name DCT Mark Out
Product Use Liquid Ready-to-Use
Product ID Number DCT100430
PGP Number 9-77

RECOMMENDED USE AND RESTRICTIONS ON USE

D-Limonene-based Graffiti Remover

COMPANY IDENTIFICATION

Manufacturer Diversified Chemical Technologies, Inc.
15477 Woodrow Wilson, Detroit, MI 48238
(313) 867-5444

EMERGENCY TELEPHONE NUMBER

24 Hour Emergency Phone Number (Health & Safety; Transportation) CHEMTREC - (800) 424-9300

SECTION 2 HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Product has not been tested as a whole to determine its GHS classification. Hazard categories are based on individual ingredient hazard categories. Refer Section 16 for additional GHS Phrases.

Hazard Class	Hazard Category
Serious Eye Damage/Eye Irritation	2A
Skin Corrosion/Irritation	3
Flammable Liquids	3
Aquatic Toxicity (Acute)	3
Aquatic Toxicity (Chronic)	4

GHS LABEL ELEMENTS

Pictogram

GHS Signal Word
WARNING

GHS Hazard Phrases

Flammable liquid and vapor.
Causes mild skin irritation.
Causes serious eye irritation.
Harmful to aquatic life.
May cause long lasting harmful effects to aquatic life.

GHS Precaution Phrases

Keep container tightly closed.

N/D = Not Determined N/A = Not Applicable N/AV = Not Available

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Wear protective gloves/protective clothing/eye protection/face protection.
Take precautionary measures against static discharge.
Use only non-sparking tools.
Wash hands thoroughly after handling.
Avoid release to the environment.

GHS Response Phrases

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation occurs, get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, get medical advice/attention.
Store in cool/well-ventilated place.

GHS Storage and Disposal Phrases

Dispose of contents/container to…*licensed professional waste disposal service or contact your regulatory department.*

POTENTIAL HEALTH EFFECTS (Acute and Chronic)

Chronic: Product has not been tested as a whole to determine its acute and long-term effects. The product does contain ingredients that potentially may affect from repeated excessive exposures.

Acute- Inhalation May cause respiratory tract irritation. May be harmful if inhaled.
Acute-Skin Contact Causes skin irritation. Prolonged and/or repeated contact may cause defatting of the skin and dermatitis.
Acute-Eye Contact Causes eye irritation.
Acute-Ingestion May cause irritation of the digestive tract.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

CAS Number	Ingredients*	Percentage Range
27177-77-1	Benzenesulfonic acid, dodecyl-, potassium salt	1 - 10
34590-94-8	Propanol, (2-Methoxymethylethoxy)-	10 – 20
5989-27-5	(R)-1-Methyl-4-(1-methylethenyl)-cyclohexene	1 – 10

***Identity of any other chemicals and/or exact percentage (concentration) has been withheld as a trade secret.**

SECTION 4 FIRST AID MEASURES

IN CASE OF INHALATION

Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

IN CASE OF SKIN CONTACT

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

IN CASE OF EYE CONTACT

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

IN CASE OF INGESTION

Do NOT induce vomiting. If victim is conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been investigated

N/D = Not Determined N/A = Not Applicable N/AV = Not Available

NOTE TO PHYSICIAN

Treat symptomatically and supportively. It is advisable not to induce vomiting due to the risk of aspiration and it is not usually necessary unless a large amount has been ingested or it has been contaminated with another product.

SECTION 5 FIRE FIGHTING MEASURES

Flash Point	122 °F
Flash Point Method	PMCC

Explosive Limits	***LEL***: N/AV	***UEL***: N/AV
Auto Ignition Point	N/D	

SUITABLE EXTINGUISHING MEDIA

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

FIRE FIGHTING INSTRUCTIONS

As in any fire, wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

FLAMMABLE PROPERTIES AND HAZARDS No data available

SECTION 6 ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
National Response Center (24-HR Reporting): (800) 424-8802.

SAFETY PRECAUTIONS

Use suitable protective clothing appropriate to spill size and risk of exposure. Refer to Section 8 for further details. Use extreme caution because affected area(s) may be slippery. For industrial use only. Keep out of reach of children.

CONTAINMENT AND CLEANUP

Avoid runoff into sanitary and storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions. Absorb spill with inert material and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING

OSHA Combustible/DOT Flammable liquid. Avoid contact with skin, eyes, and clothing. Wear suitable protective equipment (see Section 8). Avoid breathing mist or vapor – use only in a well-ventilated area. Unvented containers may develop pressure – use with caution. Wash skin thoroughly after handling. Bond and ground whenever dispensing from one container into another. Do not weld, burn, or torch containers containing this product. Use **Static Accumulator.**

PRECAUTIONS TO BE TAKEN IN STORAGE

Store in dry conditions protected from frost and elevated temperatures – covered storage is recommended. Keep containers closed when not in use. Store away from incompatible materials (see Section 10). Long-term storage temperatures should not exceed 120° F. Keep away from sparks, heat and flame.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

CAS #	Ingredients	OSHA TWA	ACGIH TWA	Other Limits
34590-94-8	Propanol, (2-Methoxymethylethoxy)-	PEL: 100 ppm	TLV: 100 ppm; STEL: 150 ppm	N/A

N/D = Not Determined N/A = Not Applicable N/AV = Not Available

ENGINEERING CONTROLS

The level of ventilation necessary will vary depending upon potential exposure conditions. Adequate ventilation should be provided so that exposure limits are not exceeded. If heavy misting is present, local exhaust ventilation should be considered in addition to general mechanical ventilation.

WORK/HYGIENIC/MAINTENANCE PRACTICES

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing separate from home laundry and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping. Do not store work clothing and protective equipment in the same locker as personal clothing.

PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal use.

Respiratory Protection None required under normal intended conditions of product use. However, if vapors or mists are present and if engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, a NIOSH/MSHA approved respirator may be appropriate.

Hand Protection Wear appropriate protective gloves to prevent skin exposure. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. . The types of gloves to be considered for this material include: **Latex/Nitrile.**

Eye Protection Safety glasses are recommended. If splashing is likely, safety goggles or safety glasses with splash shield are recommended. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and Body Protection The types of clothing to be considered for this material include: Long-sleeved shirt and pants, at a minimum. If prolonged or repeated contact is likely, chemical-resistant clothing is recommended.

OTHER PROTECTIVE EQUIPMENT Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Orange
Physical State	Slightly Viscous Liquid
Odor	Citrus
pH	7.0 – 8.5
Melting Point	N/A
Boiling Point	N/D

Specific Gravity (water = 1)	0.96 - 0.98
Vapor Pressure	N/D
Evaporation Rate (water = 1)	N/D
Viscosity	N/AV
Volatile Organic Compounds (%)	23.0
Solubility in Water	Complete

SECTION 10 STABILITY / REACTIVITY

Chemical Stability ***Unstable*** [ ] ***Stable*** [X]

Conditions to Avoid Extremely high temperatures

Reactivity / Incompatibility Strong oxidizing agents, strong acids.

Hazardous Decomposition Material does not decompose at ambient temperatureIncomplete combustion or thermal decomposition may be expected to generate such materials as: particulate matter and unburned, hydrocarbons; oxides of carbon; water vapor; and other unidentified organic and inorganic compounds.

Hazardous Reactions ***Will occur*** [ ] ***Will not occur*** [X]

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SECTION 11 TOXICOLOGICAL INFORMATION

CARCINOGENICITY

Product is not tested for carcinogenicity. No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen, except as identified below;

IARC: Not Listed **ACGIH**: Not Listed **NTP:** Not Listed

Product is not tested for classification under the following categories:

LD50 (Oral), LC50 (Inhalation), Dermal Toxicity (Skin), Skin Corrosion/Irritation, Serious Eye Damage/Irritation, Respiratory/ Skin Sensitization, Germ Cell Mutagenicity, Carcinogenicity, Reproductive Toxicity, STOT-single exposure, STOR-repeated exposure, Aspiration Hazard

INGREDIENT TOXICOLOGICAL DATA

None of the ingredients above 1% concentration (0.1% for carcinogens) trigger the hazard rating or classify under the following categories, unless indicated below:

LD50 (Oral), LC50 (Inhalation), Dermal Toxicity (Skin), Skin Corrosion/Irritation, Respiratory/ Skin Sensitization, Germ Cell Mutagenicity, Carcinogenicity, Reproductive Toxicity, STOT-single exposure, STOR-repeated exposure, Aspiration Hazard

Serious Eye Damage/Irritation: CAS# 34590-94-8: Rabbit - Mild eye irritation - 24 h.

SECTION 12 ECOLOGICAL INFORMATION

General Ecological Information

Ingredient CAS# 5989-27-5, (R)-1-Methyl-4-(1-methylethenyl)-cyclohexene

Persistence and Degradability Limonene can be readily degraded in soil.

Bioaccumulative Potential May bioconcentrate in aquatic organisms and fish

Mobility in Soil Has low mobility in soil and may rapidly volatilize in the atmosphere.

SECTION 13 DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Contact a licensed professional waste disposal service to dispose of this material. Preferred method of disposal is to dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Contaminated Packaging Dispose of as unused product.

Empty Containers Clean empty containers of any residue per 40CFR261.7 guidelines and either recycle containers or dispose of in normal trash.

SECTION 14 TRANSPORT INFORMATION

	LAND (US DOT)	MARINE (IMDG)	AIR (IATA)
Proper Shipping Name	Combustible Liquid, n.o.s. (contains 10% D-Limonene)		
Hazard Class	3		
ID Number	UN 1993		
Packaging Group	III		

Additional Information

DOT Quantity Limitation: 60 L

DOT Label for Limited Quantities: LQ diamond per 49CFR172.315

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SECTION 15 REGULATORY INFORMATION

EPA SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986) LISTS
[302 (EHS) TPQ, 304 RQ, 313 TRI]
None of the ingredients above 1% concentration (0.1% for carcinogens) are identified in the lists.

SARA TITLE III SECTION 311/312 CATEGORIZATION (40 CFR 370)	Yes	No
Acute (immediate) Health Hazard	X	
Chronic (delayed) Health Hazard	X	
Fire Hazard	X	
Sudden Release of Pressure Hazard		X
Reactive Hazard		X

STATE AND OTHER US EPA REGULATIONS
California Prop. 65 N/AP

WHMIS CLASSIFICATION (1988) D2B (Stylized T) and B (Flammable and Combustible Material)
This product has been classified under WHMIS in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

NATIONAL INVENTORIES

TSCA	Yes
CAA HAP, ODC	No
CWA NPDES	No
CEPA (DSL/NDSL)	Yes
KECI	N/D

AICS	N/D
IECSC	N/D
EINECS	N/D
ENCS	N/D
PICCS	N/D

SECTION 16 OTHER INFORMATION

ADDITIONAL GHS PHRASES
GHS phrases provided below are in addition to the phrases available in Section 2. GHS phrases are identified in accordance with GHS regulations and are triggered for each hazard category.

In case of fire, use ... to extinguish.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/.../ equipment.

NFPA RATING Health (Blue): 2 Flammability (Red): 2 Reactivity (Yellow): 0 Specific Hazard(s) (White): None
HMIS RATING Health (Blue): 2 Flammability (Red): 2 Reactivity (Yellow): 0 Personal Protective Equipment: B or C

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS
Conversion from EU format MSDS to GHS format SDS; Ingredient/concentration

USER RESPONSIBILITY It is the user's responsibility to determine the suitability and adopt precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of this product.

PREPARED BY
Corporate *Environment/Health and Safety Department of Diversified Chemical Technologies, Inc. and Subsidiaries*

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