



DESCRIPTION

The original heavy duty cleaner degreaser which is used in a wide variety of cleaning and degreasing applications. This product is manufactured with a combination anionic-nonionic detergent system and includes chelating agents, inhibitors, wetting aids and water soluble solvents to provide rapid emulsification on both dry and oily soils.

PRODUCT FEATURES / BENEFITS

- Concentrated janitorial strength product / High use dilutions allow for greater versatility and economy of use
- Water soluble formulation / Product is non-flammable
- A truly general purpose product / Product is used for housekeeping, automotive and marine applications, food packaging and service areas, and others too numerous to list
- Fast grease cutting action / Allows for minimum labor and waiting
- Product in service for over three decades / Long term proven acceptance

DIRECTIONS FOR USE

A revolutionary industrial strength degreaser cleaner that rapidly removes the most stubborn greasy soils. Provides superior, odorless, labor saving cleaning to reduce maintenance costs. Non-flammable and biodegradable.

Apply to surface by mop, sponge or spray. Agitate if necessary; rinse and allow to dry. For Food Contact Surfaces: Rinse thoroughly with potable water before re-use.

Refer to the handy dilution chart below as a guideline for dilution recommendations:

DILUTION	OZ./GAL.	APPLICATION
1:128 to 1:64	1 to 2	.Light Cleaning & Degreasing
1:32 to 1:16	4 to 8	. Moderate Grease & Soils
1:8	16	. Heavy Grease
1:64	2	. Resilient and Non-Resilient Floors,
		Walls, Building Exteriors, Plastics and
		Vinyl Upholstery, and Automotive
1:12	10	. Wax Stripping, Trucks, Aircraft, Metal
		Cleaning, Pre-Paint Cleaning
1:32	4	.Bath, Shower, and Locker Room Facilities
1:3	40	. For Food Processing Applications,
		Machine and Automotive Shops, and
		other Very Heavy Duty Degreasing

SPECIFICATIONS

Color	Clear dark purple
Odor	Sassafras
pH (Concentrate)	13.5 ± 0.25
pH (1:10)	12.5 ± 0.5
pH (1:100)	11.6 ± 0.5
Solubility (water)	Complete, all ratios
Specific Gravity (g/cc)	1.04 ± 0.01
High Temp. Cloud	> 125°F
Low Temp. Cloud	< 34°F

Freeze-Thaw Stable	Yes
Viscosity (cps)	< 5
Flash Point (TOC)	None to boiling
Inhalation Toxicity	Low
Free Rinsing	Yes
Biodegradability	Complete
Density (lbs/gal)	8.7 ± 0.1
Detergency	Mixed Ionic
Shelf Life 1 year minimum in original ur	nopened container

SAFETY INFORMATION

Danger: Causes severe skin burns and eve damage. KEEP OUT OF THE REACH OF CHILDREN. Prevention: Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/ clothing and eye/face protection.



Response: If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/ doctor. If in eyes: Rinse cautiously with water for several minutes.



DEGREASER

Remove contact lenses, if present and easy to do. Continue rinsing. Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local/ regional/national/international regulations.

Additional safety measures: Read the entire label and SDS before using this product, and for additional first aid measures. SDS for this product is available on the web at www.nclonline.com Meets the requirements for USDA Authorization Class A1. For Commercial and Industrial Use Only



1-800-NAT-CHEM • 215-922-1200 • FAX: 215-922-5517 www.nclonline.com • e-mail:info@nclonline.com



NATIONAL CHEMICAL LABORATORIES, INC.

SAFETY DATA SHEET

Section 1 - Identification

Product Identifier	CHEM-EEZ Heavy Duty Cleaner / Degreaser
Other means of identification	1001
Recommended use	Alkaline cleaner.
Recommended restrictions	For commercial and industrial use only.
Manufacturer / Importer / Supplie	r / Distributor Information
Company Name	National Chemical Laboratories of PA, Inc.
Address	401 N. 10th Street - Philadelphia, PA 19123
Telephone	1 (215) 922-1200
Supplier Email	info@nclonline.com
Contact	CHEM-TEL
Emergency Phone	1 (800) 255-3924

Section 2 - Hazard(s) Identification

SDS Hazards and Warnings are based on the undiluted product. Refer to diluted SDS for Ready-To-Use Hazards and Warnings.

SDS Hazards an	d Warnings are based on the undiluted proc Classification	duct. Refer to diluted SDS for Rea Category	ady-To-Use Hazards an	d Warnings.
Physical Hazards	Not Classified	category		
Health Hazards	Serious eye damage/eye irritation	1		
	Skin corrosion/irritation	1		
OSHA defined hazards	Not Classified.			
Label Elements				
Hazard Symbol				
Signal Word	Danger			
Hazard Statement	Causes severe skin burns and eye damage	2.		
Precautionary statement				
Prevention	Do not breathe mist or vapor. Wash thor	oughly after handling. Wear prote	ective gloves/clothing a	nd eye/face protection.
Response	If swallowed: Rinse mouth. Do NOT induc Rinse skin with water/shower. Wash con comfortable for breathing. Immediately o minutes. Remove contact lenses, if prese	taminated clothing before reuse. I call a poison center/doctor. If in ey	If inhaled: Remove pers yes: Rinse cautiously wi	son to fresh air and keep
Storage	Store locked up.			
Disposal	Dispose of contents/container in accorda	nce with local/regional/national/	international regulatior	1S.
Hazard(s) not otherwise classified (HNOC)	Not classified.			
	Section 3 - Composition	n/Information on ing	redients	
Mixture				
Hazardous Components	Ingredient Name		CAS #	%
	2-Butoxyethanol		111-76-2	1 - 5
	Nonylphenol, ethoxylated		9016-45-9	1 - 5
	Sodium Hydroxide		1310-73-2	1 - 5
	Section 4 - F	irst-aid Measures		
Inhalation	If respiratory irritation or distress occurs, apply artificial respiration. CONSULT A PH		athing is difficult, give o	xygen. If breathing stops,
Skin contact	Remove contaminated clothing and shoe attention if irritation persists. Wash contained attention if irritation persists.	· · ·	nty of water for at least	15 minutes. Get medical
Eye contact	Immediately flush eyes with plenty of wa remove contact lenses. Continue to rinse	-	onally lifting the upper	and lower eyelids. Check and
Ingestion	Rinse mouth thoroughly with water. DO I anything by mouth to an unconscious per	0	,	

	Call a physician or poison control cer	nter immedia	ately.			
Most Important symptoms	Causes skin and eye burns.					
/effects, acute and delayed						
Indication of immediate medical attention and special treatment	Treat symptomatically.	Treat symptomatically.				
General Information	Ensure that medical personnel are av	ware of the r	naterial(s) involved, and take precautions to protect themselves.			
	Section 5 - I	Fire-figl	nting measures			
Suitable extinguishing media	Carbon dioxide, alcohol-resistant foa	am, dry chem	nical, water spray, or water fog.			
Unsuitable extinguishing media	Not available.					
Specific hazards arising from the chemical	None known.					
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus a	and full prote	ective clothing must be worn in case of fire.			
Fire-fighting equipment /instructions	Move containers from fire area if you	u can do it w	ithout risk. Use water spray to keep fire-exposed containers cool.			
	Section 6 - Acc	idental	release measures			
Personal precautions, protective equipment and emergency procedures.	Isolate area. Keep unnecessary perso	onnel away.	Use personal protection as recommended in Section 8 of the SDS.			
Methods and materials for containment and cleaning up	SMALL SPILLAGE: Absorb spillage with suitable absorbent material. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water. LARGE SPILLS: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water.					
Environmental precautions	Avoid discharge into drains, water co	ourses or ont	to the ground.			
	Section 7 -	Handlin	ng and storage			
Precautions for safe handling		•	t breathe mist or vapor. Do not taste or swallow. Use with adequate Personal Protective Equipment recommended in section 8 of the SDS.			
Conditions for safe storage, including any incompatibilities	Store away from incompatible mater	rials. Keep co	ontainer closed.			
	Section 8 - Exposu	re conti	rollpersonal protection			
Occupational exposure limits						
US. OSHA Table Z-1 Limits for	Air Contaminants (29 CFR 1910.1000)					
Components		Type TWA	Value			
2-Butoxyethanol (CAS 111-76-2)			240 mg/m ³ , 50 ppm			
Sodium Hydroxide (CAS 1310-73-2) TWA 2 mg/m ³						
US. ACGIH Threshold Limit Va	alues					
Component		Туре	Value			
2-Butoxyethanol (CAS 111-7	76-2)	TWA	20 ppm			
Sodium Hydroxide (CAS 131	10-73-2)	Ceiling	2 mg/m³			

US. NIOSH: Pocket Guide to Chemical Hazards				
Components	Туре	Value		
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m³, 5 ppm		
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m³		
US. ACGIH. BEIs. Biological Exposure Indices				Sampling
Components	Value	Determinate	Specimen	Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

* - For sampling details, please see the source document.

Exposure guidelines

Use personal protective equipment as required. Keep working clothes separately.

Exposure	
Can be absorbed though the skin.	
400).	
Exposure	
Skin designation applies.	
Exposure	
Can be absorbed though the skin.	
	Can be absorbed though the skin. 100). Exposure Skin designation applies. Exposure

Components	Exposure	
2-Butoxyethanol (CAS 11)	.1-76-2) Can be absorbed though the	ne skin.
US.OSHA Table Z-1-A (29 CF	FR 1910.100)	
Components	Exposure	
2-Butoxyethanol (CAS 11)	76-2) Can be absorbed though the skin.	
US.Rhode Island Hazardous	s Substances Right-to-Know Act (R.I. Gen. Laws Section 28-21-1 et. seq	.)
Components	Exposure	
2-Butoxyethanol (CAS 11)	.1-76-2) Can be absorbed though the	ne skin.
US.Tennesee. OELs Occupa	ational Exposure Limkits, Table Z1A	
Components	Exposure	
2-Butoxyethanol (CAS 11)	.1-76-2) Can be absorbed though the	ne skin.
Appropriate engineering	Provide adequate ventilation and minimize the risk of inhalation of	vapors and mists. Provide easy access to water
controls	supply and eye wash facilities.	
Individual protection measures,	, such as personal protective equipment	
Eye/face protection	Wear approved chemical safety goggles.	
Skin protection		
Hand protection	Wear chemical-resistant, impervious gloves. Suitable gloves can be	recommended by the glove supplier.
Other	Wear appropriate chemical resistant clothing.	
Respiratory protection	Use a respirator when local exhaust or ventilation is not adequate supplied respirator may be required.	to keep exposures below the OEL. In a confined space a
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Always observe good personal hygiene measures, such as washing and/or smoking. Routinely wash work clothing and protective equi	

Section 9 - Physical and chemical properties

Appearance	Clear.
Physical state	Liquid.
Form	Liquid.
Color	Purple.
Odor	Sassafras.
Odor threshold	Not available.
рН	13.3
Melting point/freezing point	Not available.
Initial boiling point and	212 °F (100 °C)
boiling range	
Flash point	> 212.0 °F (> 100.0 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Similar to water.
Vapor density	Similar to water.
Relative density	1.04 ± 0.01
Relative density temperature	75 °F (23.89 °C)
Solubilities	100 % Soluble.
Partition Coefficient n- octanol/water	Not available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Viscosity	< 10 cP
Viscosity Temperature	75 °F (23.89 °C)

Section 10 - Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possiblity of hazardous reactions	Hazardous polymerization does not occur.
Conditions to Avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.

Serious eye damage/ eye Respiratory sensitization Not classified. Kin sensitization Not classified. Germ cell mutagenicity Not classified. Garcinogenicity Not classified. ARC Monographs. Overall Evaluation of Carcinogenicity Component V Result Of Carcinogenicity Not classified. ARC Monographs. Overall Evaluation of Carcinogenicity Not classified. Specific target organ toxicity Not Classified. Specific	us Decomposition	Carbon monoxide. Carbon dioxi	ide.				
inhalation May cause burns in mucous membranes, throat, esophagus and stomach. Skin contat Causes skin burns. Eve contact Causes skin and eye burns. Symptoms related to the obsological defrects. Causes skin and eye burns. physical, chemical and toxicological defrects. Kause skin and eye burns. Level Type Code Species 2-Burosyethanol (CAS 111-76-2) Acute Dermal LESO Rabbit Acute Oral LDSO Rabbit Sodium Hydroxide (CAS 1310-73-2) Acute Oral LDSO Rabbit Sodium Hydroxide (CAS 1310-73-2) Acute Oral LDSO Rabbit Sodium Hydroxide (CAS 1310-73-2) Acute Oral LDSO Rabbit Serious eye damage/ Causes skin burns. Causes serious eye damage. Serious eye d		Section 11	- Toxicologi	cal informa	ation		
Invaliation May cause burns in mucous membranes, throat, esophagus and stomach. Site contact Causes skin burns. Eve contact Causes skin burns. Symptons related to the phylical, chemical materiature Causes skin and eye burns. Symptons related to the phylical, chemical materiature Causes skin and eye burns. Total coordinature Causes skin and eye burns. Phylical, chemical materiature Second Secon							
Skin contact Causes skin burns. Eve contact Causes skin and eye burns. physical, chemical and toxicological datacteristics Causes skin and eye burns. physical, chemical and toxicological datacteristics May be harmful if swallowed. Components Level Type Code Species 2-8utosyethanol (CAS 111-76-2) Acute Dermal LESO Rat Acute Oral LDSO Rat Nonvjohenol, ethows/lated (CAS 9016-45-9) Acute Oral LDSO Rat Skin corrosion/inflation Causes skin burns. Causes sensus eye damage. Sections eye damage/ Sections eye damage.		,					
erioda eye damage: Symption cleated to the Symption diversional and eye burns. Series is in and eye burns. Series is in and eye burns. traited oxicle divater structures Components: Series is in and eye burns. Series is in and eye burns. traited oxicle divater structures Components: Series is in and eye burns. Series is in and eye burns. Series is in and eye burns. Level Type Code Species is in and eye burns. Series is in and eye burns. Acute Dermal LDSO Rabbit Acute Oral LDSO Rabbit Rabbit Acute Oral LDSO Mouse Sodium Hydroxide (CAS 3016-45-9) Acute Oral LDSO Mouse Series eye damage / eye Causes storous eye damage. Series eye eye damage. Series eye eye eye eye eye eye eye eye eye e			embranes, throat, esc	phagus and stom	ach.		
Sympions related to the provision of text certains is selected and isolated explosions of text certains in the provision of text certains isolated explosions of text certains in the provision of text certains isolated explosions of text certains in the provision of text certains isolated explosions of text certains in the provision of text certains isolated explosions of text certains in the provision of text certains in the provision of text certains isolated explosions of text certains in the provision of text certains isolated explosions of text certains in the provision of text certains isolated explosions of text certains in the provision of text certains isolated explosions of text certains in the provision of text certains isolated explosions of text certains in the provision of text certains isolated explosions of text certains in the provision of text certains isolated explosions of text certains in the provision of text certains isolated explosions of text certains in the provision of text certains isolated explosions of text certains in the provision of text certains isolated explosions of text certains in the provision of text certains isolated explosions in the provision of text certains isolated explosions in the provision of text certains isolated explosions is the text certains isolated explosions isolated explosions in the text certains isolated explosions is the text certains isolated explosions isolated explosions isolated explosions isolated explosions isolated explosions isolate							
pinger and and server sets and set of the s							
into a serie in the serie is a serie is	, chemical and	auses skin and eye burns.					
Components Level Type Code Species 2-butoxyethanol (CAS 111-76-2) Acute Dermal LD50 Rabbit Acute Oral LD50 Rat Acute Oral LD50 Rat Acute Oral LD50 Rat Acute Oral LD50 Rat Solium Hydroxide (CAS 101-673-2) Acute Oral LD50 Rabbit Skin corrosion/irritation Causes skin burns. Causes serious eye damage. Serious eye damage. Serious eye damage. Not cassified. Skin sensitization Not cassified. Not cassified. Serious eye damage. Not cassified. Skin sensitization Not cassified. Not cassified. Comment Serious eye damage. Comment Cardinogenicity Not classified. Not classified. Not classified. Not classified. Acute Not classified. Not classified. Not classified. Not classified. Specific target organ toxicity- Not classified. Not classified. Not classified. Specific target organ toxicity- Not classified. Seriet ser	-						
2-8utoxyethanol (CAS 111-76-2) Acute Dermal LD50 Rabbit Acute Inhalation IC50 Rat Acute Oral LD50 Ratoro Nonylphenol, ethory lated (CAS 9016-45-9) Acute Oral D50 Mouse Sodium Hydroxie (CAS 9016-45-9) Acute Oral D50 Mouse Sodium Hydroxie (CAS 9016-45-9) Causes serious eye damage. Non your is in the production of the productin the production of the production of the production of	xicity	Aay be harmful if swallowed.					
Acute Inhalation LC50 Rat Acute Oral LD50 Rat Nonylphenol, ettoxylated (CAS 9016-45-9) Acute Oral LD50 Mause Sodium Hydroxide (CAS 1310-73-2) Acute Oral LD50 Rabbit Serious eye damage/ yee Causes serious eye damage. Causes serious eye damage. Not classified. Serious eye damage. Not classified. Skin sensitization Not classified. Not classified. Comment Serious eye damage. Not classified. Carrinogenicity Not classified. Not classified. Comment Serious eye damage. Serious eye damage. Not classified. Carrinogenicity Not classified. Not classified. Not classified. Not classified. Specific target organ toxicity - specific target organ toxicity - specific target organ toxicity - not classified. Not classified. Not classified. Specific target organ toxicity - especific target organ toxicity - specific target organ toxicity - specific target organ toxicity - frequent pills can have a harmful or dassified as environmentally hazardous. However, this does not exclude the possibility the frequent pills can have a harmful or dassified. Nonylphenol, ettoxylated, 901-64-5 EC50 Daphnia magna)	Components		Level	Туре	Code	Species	Results
AcuteOralD50RatNonylphend, ethor. Ved (CAS 1310-73 ->)AcuteOralD50MouseSkin corrosion/intrictCauses serious exerious exericity exercise exericity exercise exericity exercise exercise exercise exericity exercise exericity exercise	2-Butoxyethanol (C	S 111-76-2)	Acute	Dermal	LD50	Rabbit	400 mg/kg
Nonvjphenol, etwo (AS 9016-45-9) Acute Oral LD50 Mouse Sodium Hydroviet (AS 1310-73-2) Acute Oral LD50 Rabbit Skin corrosolon/irritation Caues skin burns. Caues serious eve damage. Secience end and acute serious eve damage. Secience end and acute serious eve damage. Secience end acute serious eve damage. <td></td> <td></td> <td>Acute</td> <td>Inhalation</td> <td>LC50</td> <td>Rat</td> <td>450 mg/l, 4 hrs</td>			Acute	Inhalation	LC50	Rat	450 mg/l, 4 hrs
Sodium Hydroxide (CAS 1310-73-2) Acute Oral LD50 Rabbit Skin corrosion/irritation Causes skin burns. Causes serious eve damage. Serious eve damage/ eve Causes serious eve damage. Serious eve damage/ eve Causes serious eve damage. Serious eve damage. Serious eve damage. Respiratory sensitization Not classified. Serious evention e			Acute	Oral	LD50	Rat	560 mg/kg
Skin corrosion/irritation Causes skin burns. Causes serious eye damage. Serious eye damage / eye Causes serious eye damage. Firitation Not classified. Respiratory sensitization Not classified. Skin sensitization Not classified. Carcinogenicity Not classified. Second to transity Not Cassified. Second to transity Not	Nonylphenol, etho:	lated (CAS 9016-45-9)	Acute	Oral	LD50	Mouse	4290 mg/kg, b
Serious eve damage/ eve Causes serious eve damage. Respiratory sensitization Not classified. Skin sensitization Not classified. Serim cell mutagenicity Not classified. Germ cell mutagenicity Not classified. Germ cell mutagenicity Not classified. ARC Monographs. Overall Evaluation of Carcinogenicity Component 2- Butoxyethanol (CAS 111-76-2) Result Not classified. Specific target organ toxicity Not Class	Sodium Hydroxide	AS 1310-73-2)	Acute	Oral	LD50	Rabbit	500 mg/kg
irritation Not Classified. Respiratory sensitization Not classified. Gerr cell mutagenicity Not classified. Carcinogenicity Not classified. Carcinogenicity Not classified. Carcinogenicity Not classified. Carcinogenicity Not classified. Carcinogenicity Not classified. 2-Butoxyethanol (CAS 111-76-2) Result Comment 2-Butoxyethanol (CAS 111-76-2) Not classified. Specific target organ toxicity Not	osion/irritation	auses skin burns. Causes serio	us eye damage.				
Respiratory sensitization Not classified. Skin sensitization Not available. Gerri cell mutagenicity Not classified. Corrinogenicity Not classified. IARC Monographs. Juncal Statistical Not classified. Component Kesuits Comment Component Not classified. Not classified. Specific target organ toxicity - specific target orga		auses serious eye damage.					
Kin sensitization Not available. Germ cell mutagenicity Not classified. Carcinogenicity Not classified. KARC Monographs. Overall Evaluation of Carcinogenicity Component V Result Comment 2-Butoxyethanol (CAS 111-76-2) Result Specific target organ toxicity Not classified. Specific target organ toxicity Not Clas							
Gerr cell mutagenicity Not classified. Carcinogenicity Not classified. VARC Monographs. Overall Evaluation of Carcinogenicity to Component Carcinogenicity of Carcinogenicity of Carcinogenicity to ARC Monographs. Overall Evaluation of Carcinogenicity to Second Carcinogenicity of Carcinogenicity of Carcinogenicity to humans. Reproductive toxicity Not classified. Single exposure Sepecific target organ toxicity - Not classified. Sepecific target organ toxicity - Nonvjhenol, ethoxylated, 9016-45-9 Acute Crustacea degrabability Information Sepecific target organ toxicity - Not known. Partition coefic true organ toxicity - Sepecific target organ toxicity - Sepecific target organ toxicity - Sepecific target organ toxicity - Sepecific target organ toxicity - Not known. Not known. Not known. Sepecific target organ torgan toxicity - Sepecific target organ toxicity - Sepeci	-						
Carcinogenicity Not classified. IARC Monographs. V=rall Evaluation of Carcinogenicity: Result Comment Component Result Comment 2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans. Reproductive toxicity- Not classified. Not classifiable as to carcinogenicity to humans. Specific target organ toxicity- Not classified. Not classified. Specific target organ toxicity - Not classified. Not classified. Specific target organ toxicity - Not classified. Not classified. Specific target organ toxicity - Not classified. Not classified. Specific target organ toxicity - Not classified. Not classified. Specific target organ toxicity - Not classified. Not classified. Specific target organ toxicity - Not classified. Not classified. Specific target organ toxicity - Not classified. Specific target organ toxicity - Specific target organ toxicity - Not classified. Specific target organ toxicity - Specific target organ toxicity - Not classified. Specific target organ toxicity - Specific target organ toxicity - The product is not cla							
TARC Monographs. Overall Evaluation of Carcinogenicity Component Result Comment 2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans. Reproductive toxicity Not classified. Specific target organ toxicity Not classified. Not known. Specific target organ toxicity Not	• •						
Component Result Comment 2:Butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans. Reproductive toxicity Not classified. Specific target organ toxicity - Not classified. Specific target organ toxicity - repeated exposure Not classified. Specific target organ toxicity - Not classified. Specific target organ toxicity - repeated exposure Not classified. Specific target organ toxicity - Not classified. Specific target organ toxicity - repeated exposure Not classified. Specific target organ toxicity - Not classified. Specific target organ toxicity - repeated exposure Not classified. Specific target organ toxicity - Not classified. Specific target organ toxicity - repeated exposure Not classified. Specific target organ toxicity - Not classified. Specific target organ toxicity - repeated exposure Not classified. Specific target organ toxicity - Not classified. Specific target organ toxicity - repeated exposure Not classified. Specific target organ toxicity - Not classified. Specific target organ toxicity - Intervention The product is not classified as environmentally hazardous. However, this does not exclude the possibility time frequent spills can have a harmful or damaging effect on the environment. Component(s) Constacea EC50 Daphnia magna	•						
2-Butoxyethanol (CAS 111-76-2) 3 Not classified as or carcinogenicity to humans. Reproductive toxicity Not classified. Specific target organ toxicity Not classified. Specific target organ toxicity Not classified. Prepeated exposure Aspiration hazard Not classified. Prepeated exposure Aspiration hazard Not classified. Prepeated exposure Aspiration hazard Not classified as environmentally hazardous. However, this does not exclude the possibility of frequent spills can have a harmful or damaging effect on the environment. Component(s) Not classe EC50 Daphnia magna 65 mg/l, 48 hours frequent spills can have a harmful or damaging effect on the environment. Acute Crustacea EC50 Daphnia magna 65 mg/l, 48 hours frish LC50 Bluegill (lepomis macrochirus) 1.2.2 mg/l, 48 hours Fish LC50 Bluegill (lepomis macrochirus) 1.2.1.8 mg/l 96 hours Presistence and degrad blity Components Not known. Presistence and degrad blity Components Not known. Presistence and degrad blity Acute Crustacea EC50 Nater flea (Daphnia magna) 1.2.2 mg/l, 48 hours Fish LC50 Bluegill (lepomis macrochirus) 1.5.8 mg/l 96 hours Presistence and degrad blity Acute Not known. Presistence and degrad blity Acute Not known. Presistence and degrad blity Not known. Presistence and degrad blity Not known. Presistence and degrad blity Acute Not known. Presistence and degrad blity Not known. Presistence and degrad	• •	l of Carcinogenicity	Decult	Comm	ant		
humans.Not classified.Specific target organ txicity - 0Not classified as environment.Specific target organ txicity - 0Not classified as environmentally hazardous. However, this does not exclude the possibility trequent spills can have a harmful or damaging effect on the environment.Component(s)Specific trequent spills can have a harmful or damaging effect on the environment.Nonylphenol, et a spill classified as environment frequent spills can have a harmful or damaging effect on the environment.AquaticForst trect to the frequent spills can have a harmful or damaging effect on the environment.AcuteECS0Daphnia magna65 mg/l, 48 hoursAcuteECS0Water flea (Daphnia magna)1.2.2 mg/l, 48 hoursPartition coefficient troctor Use spected to be biodegradable.Specific traceal degradable.Partition coefficient troctor Use spected to be biodegradable.Specific traceal degradable.Partition coefficient troctor Use spected to be biodegrada						carcinogenicity to	
Specific target organ toxicity - Not classified. single exposure Specific target organ toxicity - Not classified. seperated exposure Not classified. Aspiration hazard Not classified. Section 12 - Ecological Information Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility ti frequent spills can have a harmful or damaging effect on the environment. Component(s) Nonylphenol, ethylated, 9016-45-9 Aquet Crustacea EC50 Daphnia magna 65 mg/l, 48 hours Crustacea EC50 Water flea (Daphnia magna) 12.2 mg/l, 48 hours Fish LC50 Bluegill (lepomis macrochirus) 1 - 1.8 mg/l 96 hours Persistence and degradability The product is expected to be biodegradable. Bioaccumulative potential Not known. Partition coeficient n-octanol / water log (Kow) Components 2-Butoxyethanol (CAS 111-76-2) 0.83 Mobility in soil Not available. Mobility in general The product is water soluble and may spread in water systems.			5			carcinogenicity to	
single exposure Specific target organ toxicity - Not classified. repeated exposure Aspiration hazard Not classified. Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility to frequent spills can have a harmful or damaging effect on the environment. Component(s) Nonylphenol, ethoxylated, 9016-45-9 Aquatic Acute Crustacea EC50 Daphnia magna 65 mg/l, 48 hours Crustacea EC50 Bluegill (lepomis macrochirus) 1.2.2 mg/l, 48 hours Fish LC50 Bluegill (lepomis macrochirus) 11.8 mg/l 96 hours Persistence and degradability The product is expected to be biodegradable. Bioaccumulative potential Not known. Partition coeficient n-octanol / water log (Kow) Components Results 2.Butoxyethanol (CAS 111-76-2) 0.83 Mobility in soil Not available. Mobility in general The product is water soluble and may spread in water systems.	ctive toxicity	lot classified.					
Repeated exposure Aspiration hazard Not classified. Section 12 - Ecological Information Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility to frequent spills can have a harmful or damaging effect on the environment. Component(s) Nonylphenol, ethoxylated, 9016-45-9 Aquatic EC50 Daphnia magna 65 mg/l, 48 hours Acute Crustacea EC50 Water flea (Daphnia magna) 12.2 mg/l, 48 hours Fish LC50 Bluegill (lepomis macrochirus) 1 - 1.8 mg/l 96 hours Persistence and degradability The product is expected to be biodegradable. Nont Hours Bioaccumulative potter trial Not known. Results 2-8utoxyethinol (CAS 111-7c-2) 0.83 Mobility in soil Not available. Results 2-8utoxyethinol (CAS 111-7c-2) 0.83 Mobility in general Not available. The product is water soluble and may spread in water systems. The product is water soluble and may spread in water systems.	posure						
Section 12 - Ecological Information Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility to frequent spills can have a harmful or damaging effect on the environment. Component(s) Nonylphenol, ethoxylated, 9016-45-9 Aquatic Acute Crustacea EC50 Daphnia magna 65 mg/l, 48 hours Crustacea EC50 Water flea (Daphnia magna) 12.2 mg/l, 48 hours Fish LC50 Bluegill (lepomis macrochirus) 1 - 1.8 mg/l 96 hours Persistence and degradability Not known. Partition coeficient n-octanol / water log (Kow) Components Results 2-Butoxyethanol (CAS 111-76-2) 0.83 Mobility in gonal Not available. Not available.							
Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility to frequent spills can have a harmful or damaging effect on the environment. Component(s) Integrated spills can have a harmful or damaging effect on the environment. Nonylphenol, ethoxylated, 9016-45-9 Aquatic Acute Crustacea EC50 Daphnia magna 65 mg/l, 48 hours Crustacea EC50 Water flea (Daphnia magna) 12.2 mg/l, 48 hours Fish LC50 Bluegill (lepomis macrochirus) 1 - 1.8 mg/l 96 hours Persistence and degradability The product is expected to be biodegradable. Bioaccumulative potential Not known. Results Components Results Results 2-Butoxyethanol (CAS 111-76-2) 0.83 Mobility in soil Not available. Mobility in general The product is water soluble and may spread in water systems.	on hazard	lot classified.					
frequent spills can have a harmful or damaging effect on the environment. Component(s) Nonylphenol, etb-s- Aquatic Acute Crustacea Crustace		Section 1	2 - Ecologica	al Informat	tion		
Nonylphenol, eti-xylated, 9016-45-9 Aquatic Acute Crustacea EC50 Daphnia magna 65 mg/l, 48 hours Crustacea EC50 Water flea (Daphnia magna) 12.2 mg/l, 48 hours Fish LC50 Bluegill (lepomis macrochirus) 1 - 1.8 mg/l 96 hours Persistence and degrad Not known. 1 - 1.8 mg/l 96 hours Bioaccumulative p→trial Not known. Not known. Partition coefic tr - octanol / Water log (Kow) Not known. Vater seventer seve	ity		-			exclude the possibility	that large or
AquaticAcuteCrustaceaEC50Daphnia magna65 mg/l, 48 hoursCrustaceaEC50Water flea (Daphnia magna)12.2 mg/l, 48 hoursCrustaceaEC50Bluegill (lepomis macrochirus)1 - 1.8 mg/l 96 hoursPersistence and degrad bilityThe product is expected to be biodegrad bile.1 - 1.8 mg/l 96 hoursBioaccumulative potentialNot known.Partition coefic tr n-octanolWater log (Kow)ComponentsVater log (Kow)ComponentsVater log (Kow)2-Butoxyethal (CAS 111-7)0.83Mobility in soilNot available.Mobility in generalThe product is water systems.	oonent(s)						
AcuteCrustaceaEC50Daphnia magna65 mg/l, 48 hoursCrustaceaEC50Water flea (Daphnia magna)12.2 mg/l, 48 hoursFrishLC50Bluegill (lepomis macrochirus)1 - 1.8 mg/l 96 hoursPersistence and degrad bilityThe product is expected to be biodegrad bile.Not known.Partition coefic tr n-octano!Not known.Partition coefic tr n-octano!Water log (Kow)ResultsComponentsVater log (Kow)0.83Abbility in soi!Not available.0.83Mobility in generalThe product is water systems.	Iphenol, ethoxylated, 9016	5-9					
Crustacea EC50 Water flea (Daphnia magna) 12.2 mg/l, 48 hours Fish LC50 Bluegill (lepomis macrochirus) 1 - 1.8 mg/l 96 hours Persistence and degradability The product is expected to be biodegradable. 1 - 1.8 mg/l 96 hours Bioaccumulative potential Not known. 1 Partition coeficient n-octanol / water log (Kow) Components Results 2-Butoxyethanol (CAS 111-76-2) 0.83 Mobility in soil Not available. Mobility in general The product is water soluble and may spread in water systems.							
FishLC50Bluegill (lepomis macrochirus)1 - 1.8 mg/l 96 hoursPersistence and degradabilityThe product is expected to be biodegradable.Bioaccumulative potentialNot known.Partition coeficient n-octanol / water log (Kow)ComponentsResults2-Butoxyethanol (CAS 111-7-)0.83Mobility in soilNot available.Mobility in generalThe product is water soluble and may spread in water systems.							
Persistence and degradability The product is expected to be biodegradable. Bioaccumulative potential Not known. Partition coeficient n-octanol / water log (Kow) Results Components Results 2-Butoxyethanol (CAS 111-76-2) 0.83 Mobility in soil Not available. Mobility in general The product is water soluble and may spread in water systems.							
Bioaccumulative potential Not known. Partition coeficient n-octanol / water log (Kow) Results Components Results 2-Butoxyethanol (CAS 111-76-2) 0.83 Mobility in soil Not available. Mobility in general The product is water soluble and may spread in water systems.			- · ·	mis macrochirus)		1 - 1.8 mg/l 96 hou	rs
Partition coeficient n-octanol / water log (Kow) Components Results 2-Butoxyethanol (CAS 111-76-2) 0.83 Mobility in soil Not available. Mobility in general The product is water soluble and may spread in water systems.	• •		oiodegradable.				
Components Results 2-Butoxyethanol (CAS 111-76-2) 0.83 Mobility in soil Not available. Mobility in general The product is water soluble and may spread in water systems.	-						
2-Butoxyethanol (CAS 111-76-2) 0.83 Mobility in soil Not available. Mobility in general The product is water soluble and may spread in water systems.		/ater log (Kow)	Reculte				
Mobility in soilNot available.Mobility in generalThe product is water soluble and may spread in water systems.		2)					
Mobility in generalThe product is water soluble and may spread in water systems.			0.05				
			id may spread in wat	er systems.			
	-	•	,	,			
Section 13 - Disposal considerations		Section 13	3 - Disposal d	considerat	ions		
Disposal instructions Dispose in accordance with applicable federal, state, and local regulations.	instructions	Dispose in accordance with app	blicable federal, state	, and local regulat	ions.		
Local disposal regulations Dispose of in accordance with local regulations.				-0-1-1			
Hazardous waste code Waste codes should be assigned by the user based on the application for which the product was used.			-	on the application	for which the	product was used.	
Waste from residues / unused Dispose in accordance with all applicable regulations. products Dispose in accordance with all applicable regulations.	om residues / unused	-	-		-		
Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied		ince emptied containers may r	retain product residu	e, follow label wa	rnings even aft	ter container is emptie	ed.

Section 14 - Transport information

	-
DOT	
UN number	UN1824
Proper shipping name	SODIUM HYDROXIDE SOLUTION
Transport hazard class(es)	8
Packing group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	B2, IB2, N34, T7, TP2
Packaging exemption	154
Packaging non bulk	202
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1824
UN proper shipping name	SODIUM HYDROXIDE SOLUTION
Transport hazard class(es)	8
Packaging group	II
Environmental hazards	No.
ERG Code	8L
Special precautions for user Other Information	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN1824
UN proper shipping name	SODIUM HYDROXIDE SOLUTION
Transport hazard class(es)	8
Packaging group	II
Environmental hazards Marine pollutant	No.
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code	This substance/mixture is not intended to be transported in bulk.

Section 15 - Regulatory Information

				· · · · · · · · · · · · · · · · · · ·		
	US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.					
TSCA Section 12(b) Export Notification (40 CFR707, Subpt			FR707, Subpt. D)	Not regulated.		
	US. OSHA Specifically	Regulated Substances	(29 CFR 1910.1001-1050)	Not on regulatory list.		
	CERCLA Hazardous Sul	bstance List (40 CFR 30	2.4			
Components				Result		
Sodium Hydroxide (CAS 1310-73-2))	LISTED			
2-Butoxyethanol (CAS 111-76-2)			LISTED			
	Superfund Amendmer	nts and Reauthorizatio	n Act of 1986 (SARA)			
	Hazard Categories	Immediate Hazard	Yes			
		Delayed Hazard	No			
		Fire Hazard	No			
		Pressure Hazard	No			
		Reactivity Hazard	No			
SARA 302 Extremely hazardous substance		No				
SARA 311/312 Hazardous chemical		Yes				
SARA 313 (TRI reporting)						
Chemical name			CAS #	% by wt.		
2-Butoxyethanol			111-76-2	1 - 5		
	Other federal regulations					
	Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List			Not regulated	J.	
	Clean Air Act (CAA) Se	ction 112(r) Accidenta	Release Prevention (40 Cl	R 68.130) Not regulated	J.	
	Drug Enforcement Administration (DEA), List 1 2		0	ted.		
Exempt Chemical Mixtures (21 CFR 1310.12(c))						
DEA Exempt Chemical Mixtures Code Number		er Not regula	ted.			
Safe Drinking Water Act (SDWA) Not regula		egulated.				
	Food and Drug Administration (FDA) Not regula		egulated.			
	US state regulations					

US.Massachusetts RTK - Substance List		Components	
		2-Butoxyethanol (CAS 111-76-2)	
		Sodium Hydroxide (CAS 1310-73-2)	
US.New Jersey Worker and Community Right-to-Know Act		Components	
		2-Butoxyethanol (CAS 111-76-2)	
		Sodium Hydroxide (CAS 1310-73-2)	
US.Pennsylvania RTK - Hazardous Substances		Components	
		2-Butoxyethanol (CAS 111-76-2)	
		Sodium Hydroxide (CAS 1310-73-2)	
US.Rhode Island RTK		Components	
		- 2-Butoxyethanol (CAS 111-76-2)	
		Sodium Hydroxide (CAS 1310-73-2)	
US - California Propsition 65		California Safe Drinking Water and Toxic Enforcement Act c material is not known to contain any chemicals currently lis reproductive toxins.	· · · · ·
rnational Inventories			
Country(s) or region	Inventory Name		On Inventory (yes/no)
Australia	Australian Inventory	of Chemical Substances (AICS)	Yes
Canada	Domestic Substances	List (DSL)	Yes
Canada	Non-Domestic Substa	nces List (NDSL)	No
China	Inventory of Existing	Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)		No
	European List of Notifed Chemical Substances (ELINCS)		No
Europe			
Europe Japan	•	and New Chemical Substances (ENCS)	No
•	•		No Yes
Japan	Inventory of Existing	t (ECL)	
Japan Korea	Inventory of Existing Existing Chemicals Lis New Zealand Invento	t (ECL)	Yes

country(s).

Section 16 - Other information, including date of preparation or last version

Issue date	12/27/2012
Version #	01
Further information	Not available.
Disclaimer	The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.

Directions:

Apply to surface by mop, sponge or spray. Agitate if necessary; rinse and allow to dry. For Food Contact Surfaces: Rinse thoroughly with potable water before re-use.

Refer to the handy dilution chart below as a guideline for dilution recommendations:

DILUTION	OZ./GAL.	APPLICATION
1:128 to 1:64	1 to 2	Light Cleaning & Degreasing
1:32 to 1:16	4 to 8	Moderate Grease & Soils
1:8	16	Heavy Grease
1:64	2	Resilient and Non-Resilient Floors, Walls, Building Exteriors, Plastics and Vinyl
		Upholstery, and Automotive
1:12	10	Wax Stripping, Trucks, Aircraft, Metal Cleaning,
		Pre-Paint Cleaning
1:32	4	Bath, Shower, and Locker Room Facilities
1:3	40	For Food Processing Applications, Machine and Automotive
		Shops, and other Very Heavy Duty Degreasing

Instrucciones para Uso:

Aplicarte a la superficie por el mop, la esponja o el aerosol. Agitar si necesario; aclarar y permitir para secarse. Para las superficies de contacto del alimento: Aclaración a fondo con agua potable antes de la reutilización.

Referir a la carta práctica de la dilusión abajo como pauta para las recomendaciones de la dilusión:

DILUTION	OZ./GAL.	APPLICATION
1:128 to 1 :64	1 to 2	Limpieza ligera y el desengrasar
1:32 to 1:16	4 to 8	Moderar la grasa y los suelos
1:8	16	Grasa pesada
1:64	2	Pisos resistentes y No-Resistentes, paredes, exteriores constructivos, plásticos y tapicería del vinilo, y automotor
1:12	10	Cera que pela, carros, avión, limpieza del metal, limpieza de la Pre-Pintura
1:32	4	Baño, ducha, e instalaciones del sitio del armario
1:3	40	Para los usos de la transformación de los alimentos, la máquina y las tiendas automotoras, y el otro desengrasar muy resistente

** MADE IN USA **





1001-29-0514



product, scan this **OR code** to



World Class Cleaning Solutions®

Chem-EEZ®

Heavy Duty Degreaser Cleaner Concentrate

A revolutionary industrial strength degreaser cleaner that rapidly removes the most stubborn greasy soils!

DANGER: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. See side panel for additional precautionary statements. PELIGRO: PROVOCA GRAVES QUEMADURAS EN LA PIEL Y LESIONES OCULARES. Ver panel lateral para las medidas preventivas adicionales. NET CONTENTS: 1 GALLON / 3.79 LITERS

National Chemical Laboratories, Inc. Philadelphia, PA 19123 USA • (800) 628-2436 www.nclonline.com



Degreaser Cleaner

Respuesta: En caso de ingestión: Enjuagar la boca. NO provocar Response: If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all el vómito. En caso de contacto con la piel (o el pelo): Quitarse inmediatamente toda la ropa contaminada. Enjuagar la piel con contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: agua o tomar un baño. Lave la ropa contaminada antes de volver a usar. En caso de inhalación: Transportar la persona al aire libre Remove person to fresh air and keep comfortable for y mantenerla en una posición que le facilite la respiración. Llamar breathing. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several inmediatamente a un centro de toxicología o a un médico. En caso minutes. Remove contact lenses, if present and easy de contacto con los oios: Enjuaque cuidadosamente con agua to do. Continue rinsing. durante varios minutos. Quítese los lentes de contacto, si los usa y si puede hacerse con facilidad. Continué enjuagando.

Storage: Store locked up.

regulations.

Additional safety measures:

www.nclonline.com

Hydroxide CAS# 1310-73-2



Product No.: 1001

DANGER: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. KEEP OUT OF REACH OF CHILDREN.

Precautionary statement

Prevention: Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/clothing and eye/face protection.

Disposal: Dispose of contents/container in accordance with local/regional/national/international

Read the entire label and SDS before using this product, and for additional first aid measures, SDS for this product is available on the web at

PELIGRO: PROVOCA GRAVES OUEMADURAS EN LA PIEL Y LESIONES OCULARES. MANTENER FUERA DEL ALCANCE DE LOS NIÑOS.

Palabra de advertencia

Prevención: No respire neblina o vapor. Lávese cuidadosamente después de la manipulación. Usar quantes /indumentaria protectora/equipo de protección para los ojos/la cara.

Almacenamiento: Guardar baio llave.

Eliminación: Eliminación de contenidos / contenedor en consonancia con los reglamentos locales / regionales / nacionales / internacionales pertinentes.

Medidas additional de primeros auxilios:

Lea toda la etiqueta y SDS antes de usar este producto, así como medidas adicionales de primeros auxilios. SDS para el artículo está disponible en la web en www.nclonline.com

CONTAINS: 2-Butoxy Ethanol CAS# 111-76-2, Polyethylene Mono(Nonylphenol) Ether Glycols CAS# 9016-45-9, Sodium

Meets requirements for USDA Authorization Class A1.



Class Cleaning Solutions*

401 N. 10th Street • Philadelphia, PA 19123 1-800-NAT-CHEM • 215-922-1200 • FAX: 215-922-5517 www.nclonline.com • e-mail: info@nclonline.com