

Version 1.2

Revision Date: 04/08/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	: Glycol ether EB
Product Use Descrip-	: ESBS-Cleaner for removal of vegetable or animal oil
tion	from soiled surfaces.

Manufacturer or supplier's details

Company	: Famis Inc.
Address	5689 NW 35 th court
	Miami Fl, 33142
	United States of America

Emergency telephone number:

Transport North America: CHEMTREC 800.424.9300

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Flammable liquids	: Category 4
Acute toxicity (Oral) Acute toxicity (Inhalation)	: Category 4 : Category 4
Acute toxicity (Dermal)	: Category 4
Skin irritation	: Category 2
Eye irritation	: Category 2A
GHS Label element	<u>(!)</u>

Hazard pictograms	:	
Signal word	:	Warning



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Hazard statements	 H227 Combustible liquid. H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled H315 Causes skin irritation. H319 Causes serious eye irritation.
Precautionary statements	 Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection. Response: P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Storage: P403 + P235 Store in a well-ventilated place. Keep cool. Dispose of contents/ container to an approved waste disposal plant.



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 Potential Health Effects
 Carcinogenicity:

 IARC
 No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No component of this product present at levels greater

ipated carcinogen by NTP.

than or equal to 0.1% is identified as a known or antic-

Emergency Overview

CAUTION!	
Appearance	liquid
Colour	colourless
Odour	mild, sweet, ester-like, ether-like
Hazard Summary	No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Hazardous components

CAS-No.	Chemical Name	Concentration (%)
111-76-2	2-Butoxy ethanol	90 - 100
107-21-1	Ethylene glycol	0.1 - 1

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.



Version 1.2 Revision Date: 04/08/2015 If inhaled : If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician. In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes. In case of eye contact : Immediately flush eye(s) with plenty of water. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. If swallowed : Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing : Use an extinguishing media appropriate for surround ing fire.	1 -
Unsuitable extinguishing : High volume water jet media	
Hazardous combustion : Carbon oxides products	
Specific extinguishing : Use a water spray to cool fully closed containers. methods	
Further information : For safety reasons in case of fire, cans should be stored separately in closed containments.	
Special protective equip- ment for firefighters : Wear self-contained breathing apparatus for firefighters ing if necessary.	t-

NFPA Flammable and Combustible Liquids Classification: Combustible Liquid Class IIIA

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, : Use personal protective equipment.



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protective equipment and emergency procedures Environmental precau- tions	: Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	: Contain spillage, and then collect with non- combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in con- tainer for disposal according to local / national regula- tions (see section 13). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 Avoid formation of aerosol. Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms.
Conditions for safe sto-	Dispose of rinse water in accordance with local and national regulations. : No smoking.
rage	Keep container tightly closed in a dry and well- ventilated place. Observe label precautions. Electrical installations / working materials must comp- ly with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parame- ters / Permissi- ble concentra- tion	Basis
111-76-2	2-Butoxy ethanol	TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m3	NIOSH REL
		TWA	50 ppm 240 mg/m3	OSHA Z-1
		TWA	25 ppm	OSHA P0



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			120 mg/m3	
107-21-1	Ethylene glycol	TLV-C	50 ppm 125 mg/m3	OSHA PO
		С	100 mg/m3	ACGIH
		C (Aerosol only)	100 mg/m3	ACGIH

Biological occupational exposure limits

Components		CAS-No.	Control parame- ters	Biological specimen		Permissi- ble con- centration	Basis
2-Butoxy ethan	nol	111-76- 2	Butoxya- cetic acid (BAA)	Urine	End of shift (As soon as possible after expo- sure ceases)	200 mg/g Creatinine	ACGIH BEI

Personal protective equipment

Respiratory protection	:	No personal respiratory protective equipment normally required.
Hand protection Remarks	:	The suitability for a specific workplace should be dis- cussed with the producers of the protective gloves.
Eye protection	:	Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	:	impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid



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Colour	: colourless
Odour	: mild, sweet, ester-like, ether-like
Odour Threshold	: 0.48 ppm
pH Freezing Point (Melting point/freezing point)	: No data available : -7574.8 °C (-103102.6 °F)
Boiling Point (Boiling point/boiling range)	: 166 - 173.5 °C (331 - 344.3 °F)
Flash point	: 62 - 70 °C (144 - 158 °F) (1,013 hPa)
Evaporation rate	: 0.153 n-Butyl Acetate
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Upper explosion limit	: 10.6 %(V)
Lower explosion limit	: 1.1 - 1.3 %(V)
Vapour pressure	: 0.599 mmHg @ 20 °C (68 °F)
Relative vapour density	: 4(Air = 1.0)
Relative density	: 0.9005 - 0.904 @ 20 °C (68 °F) Reference substance: (water = 1)
Density	: 7.514 lb/gal @ 20 °C (68 °F)
Bulk density	: No data available
Solubility(ies) Water solubility Solubility in other sol- vents	: 900 g/l completely soluble @ 25 °C (77 °F) : No data available
Partition coefficient: n- octanol/water	: log Pow: 0.81 @ 25 °C (77 °F)
Auto-ignition temperature	: 230 - 245 °C 1,013 hPa



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Thermal decomposition	: 124.7 °C
Viscosity Viscosity, dynamic	: 3.3 - 6.4 mPa.s @ 20 °C (68 °F)
Viscosity, kinematic	: 2.3 - 3.7 mm2/s @ 20 - 40 °C (68 - 104 °F)
Surface tension	: 65 mN/m

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability Possibility of hazardous reactions	Stable under normal conditions.No hazards to be specially mentioned.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents Acids Bases Amines Ammonia Acid chlorides
Hazardous decomposition products	 Carbon monoxide, carbon dioxide and unburned hy- drocarbons (smoke). Aldehydes Ketones Organic acids

SECTION 11. TOXICOLOGICAL INFORMATION

Acute tox	icity
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Product:

Acute oral toxicity	:	Acute toxicity estimate : 500 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate : 4500 ppm Exposure time: 4 h



Version 1.2 Revision Date: 04/08/2015 Test atmosphere: gas Method: Calculation method : Acute toxicity estimate : 1,100 mg/kg Acute dermal toxicity Method: Calculation method Components: 111-76-2: : LD50 (rat): 745 mg/kg Acute oral toxicity Assessment: The component/mixture is moderately toxic after single ingestion. : LC50 (rat): 550 ppm Acute inhalation toxicity Exposure time: 4 h Assessment: The component/mixture is moderately toxic after short term inhalation. Acute dermal toxicity : LD50 (rat): 1,250 mg/kg Assessment: The component/mixture is moderately toxic after single contact with skin. 107-21-1: : LD50 (rat): 2,000 mg/kg Acute oral toxicity Assessment: The component/mixture is moderately toxic after single ingestion. : LC50 (rat, male and female): > 2.5 mg/l Acute inhalation toxicity Exposure time: 6 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity : LD50 (mouse, male and female): > 3,500 mg/kg Acute dermal toxicity Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Product:

Remarks: Irritating to skin.

Components:

111-76-2: Species: rabbit Result: Irritating to skin.

107-21-1: Species: rabbit Exposure time: 20 h



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Method: In vivo Result: No skin irritation

Serious eye damage/eye irritation

Product:

Remarks: Irritating to eyes.

Components:

111-76-2: Species: rabbit Result: Irritating to eyes.

107-21-1:

Species: rabbit Result: No eye irritation Exposure time: 24 h Method: In vivo

Respiratory or skin sensitisation

Components:

111-76-2: Test Type: Maximization test Species: guinea pig Result: Did not cause sensitisation on laboratory animals.

107-21-1:

Test Type: Maximisation Test (GPMT) Species: guinea pig Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

111-76-2: Genotoxicity in vitro	: Test Type: Mammalian cell gene mutation assay Test species: Chinese hamster ovary (CHO)
	Metabolic activation: with and without metabolic acti- vation Result: negative
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Test species: mouse (male) Application Route: Intraperitoneal Result: negative
Germ cell mutagenicity- Assessment	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.



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107-21-1:	
Genotoxicity in vitro	: Test Type: Ames test Metabolic activation: with and without metabolic acti- vation Method: OECD Test Guideline 471 Result: negative GLP: yes
Genotoxicity in vivo	: Test Type: Dominant lethal assay Test species: rat (male and female) Application Route: Oral Exposure time: daily Dose: 0, 40, 200, 1000 mg/kg Result: negative
Germ cell mutagenicity- Assessment	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Components:

111-76-2:

Species: mouse Application Route: Inhalation Exposure time: 2 yr Activity duration: 6 h Frequency of Treatment: 5 days/week NOAEL: 125 ppm

Result: Limited evidence of carcinogenic effects with no relevance to humans Carcinogenicity - As- : Not classifiable as a human carcinogen. sessment

107-21-1:

Species: mouse, (male and female) Application Route: Oral Exposure time: 24 mths Dose: 0, 40, 200, 1000 mg/kg Frequency of Treatment: daily LOAEL: 1,000 mg/kg

Result: Ambiguous Carcinogenicity - As- : Not classifiable as a human carcinogen. sessment



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Reproductive toxicity

<u>Components:</u>	
111-76-2:	
Effects on fertility	: Test Type: Two-generation study Species: mouse Application Route: oral Fertility: NOAEL: 720 mg/kg body weight Symptoms: Reduced fertility Result: Reduced fertility at maternally toxic doses
Effects on foetal devel- opment	: Test Type: Embryo-foetal development Species: rat Application Route: Inhalation Duration of Single Treatment: 10 d Frequency of Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels
Reproductive toxicity - Assessment	: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments.
107-21-1: Effects on fertility	: Test Type: Three-generation study Species: rat, male and female Application Route: Oral Dose: 0, 40, 200, 1000 mg/kg General Toxicity - Parent: NOAEL: > 1,000 mg/kg body weight General Toxicity F1: NOAEL: > 1,000 mg/kg body weight Result: No reproductive effects.
Effects on foetal devel- opment	 Species: rabbit Application Route: Oral Dose: 0, 100, 500, 1000, 2000 mg/kg Duration of Single Treatment: 10 d General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight Teratogenicity: NOAEL: 2,000 mg/kg body weight Developmental Toxicity: NOAEL: 2,000 mg/kg body weight Result: No teratogenic effects. GLP: yes
	Species: mouse Application Route: inhalation (dust/mist/fume) Dose: 0, 60, 400, 1000 ppm



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	Duration of Single Treatment: 10 d
	Frequency of Treatment: 6 hr/day
	General Toxicity Maternal: NOAEC: 60 ppm
	Teratogenicity: NOAEC: 60 ppm
	Developmental Toxicity: NOAEC: 60 ppm
	Symptoms: Maternal toxicity, Malformations were ob-
	served.
	Result: Teratogenic effects.
Reproductive toxicity -	: Fertility classification not possible from current data.
Assessment	Embryotoxicity classification not possible from current
	data.

STOT - single exposure

Product:No data available

Components:

111-76-2:No data available

107-21-1:No data available

STOT - repeated exposure

Product: No data available

Components:

111-76-2:No data available

	107-21-	1	:
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Exposure routes:	Target Organs:	Assessment:	Remarks:
Oral	Kidney	May cause damage to organs through prolonged or re- peated exposure., The substance or mixture is classified as specific target organ toxicant, re- peated exposure, category 2.	

Repeated dose toxicity

Components:

111-76-2: Species: rat NOAEL: 30 Application Route: Inhalation



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Exposure time: 14 wk Number of exposures: 6 h/d, 5 d/wk

107-21-1: Species: rat, male NOAEL: 150 mg/kg Application Route: Oral Exposure time: 12 mths Number of exposures: daily Dose: 0, 50, 150, 300, 400 mg/kg bw Method: OECD Test Guideline 452 Target Organs: Kidney Symptoms: Kidney disorders Repeated dose toxicity - : Harmful if swallowed. Assessment

Aspiration toxicity

Components: 111-76-2: No aspiration toxicity classification

107-21-1: No aspiration toxicity classification

Further information

Product: Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	
<u>Components:</u> 111-76-2:	
Toxicity to fish	 LC50 (Oncorhynchus mykiss (rainbow trout)): 1,474 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: no
Toxicity to daphnia and other aquatic inverte-	: EC50 (Daphnia magna (Water flea)): 1,800 mg/l Exposure time: 48 h



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brates	Test Type: static test Method: OECD Test Guideline 202 GLP: no
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata (green algae)): 911 mg/l End point: Biomass Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: no
107-21-1:	
Toxicity to fish Toxicity to daphnia and other aquatic inverte-	 : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test : LC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
brates	Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	 (Pseudokirchneriella subcapitata (Selenastrum capri- cornutum)): > 100 mg/l End point: Growth rate Exposure time: 96 h Test Type: static test
Toxicity to bacteria	 Toxicity threshold (Pseudomonas putida): > 10,000 mg/l Exposure time: 16 h Test Type: Static Method: DIN 38412
Persistence and degrad	ability

<u>Components:</u> 111-76-2:

Biodegradability	: aerobic Inoculum: Activated sludge, domestic, adaption not specified Result: Readily biodegradable. Biodegradation: 90.4 % Exposure time: 28 d Method: OECD Test Guideline 301B GLP: no



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107-21-1:

107-21-1.	
Biodegradability	 aerobic Inoculum: Activated sludge, domestic, adaption not specified Biodegradation: 90 - 100 % Exposure time: 10 d GLP: yes Remarks: Readily biodegradable
Bioaccumulative potentia	al
<u>Components:</u>	-
111-76-2:	
Partition coefficient: n-	: log Pow: 0.83
octanol/water	
107-21-1:	
Bioaccumulation	: Species: Fish
	Bioconcentration factor (BCF): 0.60 Exposure time: 61 d
Partition coefficient: n-	: log Pow: -1.36
octanol/water	
Mahility in sail	
Mobility in soil No data available	
Other adverse effects	
No data available	
Product:	40 CED Directorian of Environments Dart 92 Directorian
Regulation	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Sub-
Remarks	stances This product neither contains, nor was manufactured
Remarks	with a Class I or Class II ODS as defined by the U.S.
	Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A
Additional acalegical in	+ B). : No data available
Additional ecological in- formation	. INO UALA AVAIIADIE

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: Dispose of in accordance with all applicable local, state and federal regulations.



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	For assistance with your waste management needs - including disposal, recycling and waste stream reduc- tion.
Contaminated packaging	 Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

IATA (International Air Transport Association): Not regulated as a dangerous good

IMDG-Code: Not regulated as a dangerous good

DOT (Department of Transportation): NA1993, Combustible liquid, n.o.s., (2-BUTOXYETHANOL), CBL, III

Special Notes: : The flash point for this material is greater than 100 F (38 C). Therefore, in accordance with 49 CFR 173.150(f) non-bulk containers (<450L or <119 gallon capacity) of this material may be shipped as nonregulated when transported solely by land, as long as the material is not a hazardous waste, a marine pollutant, or specifically listed as a hazardous substance.

SECTION 15. REGULATORY INFORMATION

OSHA Hazards	: Combustible Liquid, Toxic by inhalation., Moderate skin irritant, Moderate eye irritant
WHMIS Classification	 B3: Combustible Liquid D1A: Very Toxic Material Causing Immediate and Serious Toxic Effects D2A: Very Toxic Material Causing Other Toxic Effects D2B: Toxic Material Causing Other Toxic Effects

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity			
Components	CAS-No.	Component	Calculated product



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		RQ (lbs)	RQ (lbs)
Ethylene glycol	107-21-1	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable QuantityThis material does not contain any components with a section 304 EHS RQ.SARA 311/312: Fire HazardHazardsAcute Health Hazard			
SARA 302	: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.		
SARA 313	 The following components are subject to reporting levels established by SARA Title III, Section 313: 111-76-2 2-Butoxy ethanol 100 % 		
	111-70-2	2-butoky ethanol	100 70

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

107-21-1 Ethylene glycol 0.9999 % This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

111-76-2	2-Butoxy ethanol	100 %
107-21-1	Ethylene glycol	0.9999 %

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean-Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know			
11	1-76-2	2-Butoxy ethanol	90 - 100 %
Pennsylvania R	ight To Kno	w	
11	1-76-2	2-Butoxy ethanol	90 - 100 %
10	7-21-1	Ethylene glycol	0.1 - 1 %
New Jersey Rig	ht To Know		
11	1-76-2	2-Butoxy ethanol	90 - 100 %



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California Prop 65This product does not contain any chemicals known to
State of California to cause cancer, birth defects, or
any other reproductive harm.

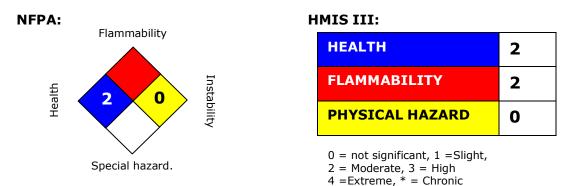
United States TSCA Inventory	:	y (positive listing) (On TSCA Inven- tory)
Canadian Domestic Substances List (DSL)	••	y (positive listing) (All components of this product are on the Canadian DSL.)
Australia Inventory of Chemical Substances (AICS)	•••	y (positive listing) (On the inventory, or in compliance with the inventory)
New Zealand. Inventory of Chemical Substances		y (positive listing) (On the inventory, or in compliance with the inventory)
Japan. ENCS - Existing and New Chemical Substances Inventory		y (positive listing) (On the inventory, or in compliance with the inventory)
Japan. ISHL - Inventory of Chemical Substances (METI)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Korea. Korean Existing Chemicals Inventory (KECI)		y (positive listing) (On the inventory, or in compliance with the inventory)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
China. Inventory of Existing Chemical Substances in China (IECSC)	:	y (positive listing) (On the inventory, or in compliance with the inventory)



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Switzerland. New notified substances and declared preparations	: y (positive listing) (The formulation contains substances listed on the Swiss Inventory)

SECTION 16. OTHER INFORMATION

Further information



The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

Legecy MSDS: R0000694

Material number:

16077390, 16074396, 16065290, 16062657, 16056118, 16056117, 16061248, 16054520, 16048541, 16047096, 16032176, 16016635, 16015501, 16001400, 788372, 775994, 765987, 765863, 714415, 709916, 702242, 699239, 691013, 677574, 674238, 623616, 614620, 602896, 555430, 554369, 554322, 554285, 554205, 554137, 554095, 554065, 552664, 550801, 503690, 501960, 167270, 123115, 103486, 103127, 103077, 103067, 102851, 102791, 102284, 87112, 87105, 86469, 86409, 86408, 85906, 85895, 85892, 70364, 70318, 70315, 70308, 70304, 70027, 69522, 54357, 54354, 53927, 53711, 53708, 53647, 53145, 53134, 53131, 20132, 20131, 20130, 20129, 20128



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Kev or le	gend to abbreviations and ac	ronvms use	ed in the safety data sheet
ACGIH	American Conference of Gov-	LD50	Lethal Dose 50%
	ernment Industrial Hygienists	2000	
AICS	Australia, Inventory of Chem-	LOAEL	Lowest Observed Adverse Effect
	ical Substances		Level
DSL	Canada, Domestic Sub-	NFPA	National Fire Protection Agency
	stances List		
NDSL	Canada, Non-Domestic Sub-	NIOSH	National Institute for Occupational
	stances List		Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure	OSHA	Occupational Safety & Health Admin-
	Scenario Tool		istration
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit
	Chemicals Association		
EINECS	European Inventory of Exist-	PICCS	Philipines Inventory of Commercial
	ing Chemical Substances		Chemical Substances
MAK	Germany Maximum Concen-	PRNT	Presumed Not Toxic
	tration Values		
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reau-
			thorization Act.
IARC	International Agency for Re-	TLV	Threshold Limit Value
	search on Cancer		
IECSC	Inventory of Existing Chemi-	TWA	Time Weighted Average
	cal Substances in China		
ENCS	Japan, Inventory of Existing	TSCA	Toxic Substance Control Act
	and New Chemical Sub-		
	stances		
KECI	Korea, Existing Chemical In-	UVCB	Unknown or Variable Compositon,
	ventory		Complex Reaction Products, and
			Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials In-
			formation System
LC50		Lethal Con	centration 50%