

**Section 1 - PRODUCT AND COMPANY IDENTIFICATION****Material Name**

LERT BOTTOMS

**Product Code**

Prefix 09

**Synonyms**

1,2-Ethanediol; 1,2-Ethylene glycol; 2-Hydroxyethanol; Ethylene alcohol; Ethylene glycol

**Product Use**

Raw material for further processing. If this product is used in combination of other products, refer to the Safety Data Sheet for those products.

**Restrictions on Use**

THIS PRODUCT IS NOT FOR SALE OR USE IN THE STATE OF CALIFORNIA.

**MANUFACTURER**

Safety-Kleen Systems, Inc.  
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Norwell, Ma 02061-9149  
www.safety-kleen.com

**SUPPLIER**

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Phone: 1-800-669-5740

Emergency Phone #: 1-800-468-1760

**Issue Date**

July 6, 2020

**Supersedes Issue Date**

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**Original Issue Date**

September 16, 1994

**Section 2 - HAZARDS IDENTIFICATION****Classification in accordance with Schedule 1 of Canada's Hazardous Products Regulations (HPR) (SOR/2015-17) and paragraph (d) of 29 CFR 1910.1200 in the United States**

Skin Corrosion/Irritation – Category 2

Eye Damage/Irritation – Category 2A

Acute Toxicity - Oral - Category 4

Acute Toxicity - Inhalation - Vapor - Category 3

Reproductive Toxicity - Category 1B

Specific Target Organ Toxicity - Single Exposure -Category 1, Category 3

Specific Target Organ Toxicity - Repeated Exposure – Category 1, Category 2

**GHS Label Elements****Symbol(s)****Signal Word**

Danger

# Safety Data Sheet

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## Hazard Statement(s)

Causes skin irritation and serious eye irritation.  
Harmful if swallowed.  
Toxic if inhaled.  
Suspected of damaging fertility or the unborn child.  
May cause respiratory irritation.  
Causes damage to organs.  
May cause damage to organs through prolonged or repeated exposure.

## Precautionary Statement(s)

### Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

### Response

IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Get medical attention, if needed. Take off contaminated clothing and wash it before reuse. 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. 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.

### Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

### Disposal

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

### Other hazards

None known.

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
107-21-1	Ethylene glycol	50-90
111-46-6	Diethylene glycol	0.5-5
542-59-6	Ethylene glycol acetate	0-3
64-19-7	Acetic acid	0-1
111-77-3	Diethylene glycol monomethyl ether	0-1

## Section 4 - FIRST AID MEASURES

### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

### Skin

IF ON SKIN: Wash with plenty of soap and water. Get medical attention, if needed. Take off contaminated clothing and wash it before reuse.

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## Eyes

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.

## Ingestion

IF SWALLOWED. Get medical advice/attention. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person.

## Most Important Symptoms/Effects

### Acute

Respiratory tract, skin, and eye irritation, central nervous system depression and damage, and heart, kidney, and respiratory system damage.

### Delayed

Liver and kidney damage, reproductive effects, nervous system damage, central nervous system damage, heart damage, respiratory system damage.

## Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information. Ethylene glycol is metabolized by alcohol dehydrogenase to various metabolites including glycoaldehyde, glycolic acid, and oxalic acid. The signs and symptoms in ethylene glycol poisoning are those of metabolic acidosis, central nervous system depression, and kidney damage. The currently recommended medical management of ethylene glycol poisoning includes elimination of ethylene glycol and metabolites, correction of metabolic acidosis, and prevention of kidney injury. As a competitive substrate for alcohol dehydrogenase, ethanol is antidotal when given in the early stages of intoxication because it blocks the formation of nephrotoxic metabolites. A more effective intravenous antidote is 4-methylpyrazole, a potent inhibitor of alcohol dehydrogenase, which effectively blocks the formation of toxic metabolites. Pulmonary edema with hypoxia has been described in a number of patients following ethylene glycol poisoning. Respiratory support with mechanical ventilation and positive end expiratory pressure may be required. There may be cranial nerve involvement in the later stages of toxicity from swallowing ethylene glycol. Effects have been reported presenting bilateral facial paralysis, diminished hearing, and dysphagia.

## Section 5 - FIRE FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog. Water or foam may cause frothing.

#### Unsuitable Extinguishing Media

Do not use high-pressure water streams.

#### Special Hazards Arising from the Chemical

Negligible fire hazard.

#### Hazardous Combustion Products

Decomposition and combustion materials may be toxic. Burning may produce carbon monoxide and unidentified organic compounds.

#### Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Stay upwind and keep out of low areas.

#### Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

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## Section 6 - ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment. Avoid release to the environment.

### Methods and Materials for Containment and Cleaning Up

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean tool into a sealable container for disposal. Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal.

## Section 7 - HANDLING AND STORAGE

### Precautions for Safe Handling

Wash thoroughly after handling. Wear protective gloves/clothing and eye/face protection. Do not eat, drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, shoes. Do not smoke while using this product.

### Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous. See SECTION 14: TRANSPORT INFORMATION for Packing Group information.

### Incompatible Materials

Acids, alkalis, oxidizing materials, reactive metals, reducing agents.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Exposure Limits

Ethylene glycol	107-21-1
Alberta, New Brunswick, Northwest Territories,	100 mg/m3 Ceiling
British Columbia	10 mg/m3 TWA particulate; 100 mg/m3 Ceiling aerosol ; 50 ppm Ceiling vapor 20 mg/m3 STEL particulate
Manitoba	25 ppm TWA vapor fraction
Nova Scotia; Prince Edward Island	25 ppm TWA vapor fraction; 50 ppm STEL vapor fraction ; 10 mg/m3 STEL inhalable particulate matter, aerosol only

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Nunavut	100 mg/m3 Ceiling aerosol
Ontario	25 ppm TWA vapor fraction ; 50 ppm STEL vapor fraction ; 10 mg/m3 STEL inhalable particulate matter, aerosol only
Quebec	50 ppm Ceiling mist and vapor ; 127 mg/m3 Ceiling mist and vapor
Saskatchewan	100 mg/m3 Ceiling aerosol
Yukon	10 mg/m3 TWA particulate ; 100 ppm TWA vapor ; 250 mg/m3 TWA vapor; 10 ppm STEL particulate ; 20 mg/m3 STEL particulate ; 125 ppm STEL vapor ; 325 mg/m3 STEL vapor
ACGIH:	25 ppm TWA vapor fraction 50 ppm STEL vapor fraction ; 10 mg/m3 STEL inhalable particulate matter, aerosol only
<b>Acetic acid</b>	<b>64-19-7</b>
Alberta; New Brunswick	10 ppm TWA ; 25 mg/m3 TWA; 15 ppm STEL ; 37 mg/m3 STEL
British Columbia; Northwest Territories; Nova Scotia; Nunavut; Ontario; Prince Edward Island; Saskatchewan	10 ppm TWA; 15 ppm STEL
Manitoba	10 ppm TWA
Quebec	10 ppm TWAEV ; 25 mg/m3 TWAEV 15 ppm STEV ; 37 mg/m3 STEV
Yukon	10 ppm TWA ; 25 mg/m3 TWA; 25 ppm STEL ; 43 mg/m3 STEL
ACGIH:	10 ppm TWA; 15 ppm STEL
NIOSH:	10 ppm TWA ; 25 mg/m3 TWA; 15 ppm STEL ; 37 mg/m3 STEL 50 ppm IDLH
OSHA (US):	10 ppm TWA ; 25 mg/m3 TWA

**ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)**

There are no biological limit values for any of this product's components.

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## Engineering Controls

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

## Individual Protection Measures, such as Personal Protective Equipment

### Eye/face protection

Wear safety glasses. Additional protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of mists or vapors. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.

### Respiratory Protection

A respiratory protection program which meets USA's OSHA General Industry Standard 29 CFR 1910.134 or Canada's CSA Standard Z94.4-M1982 requirements must be followed whenever workplace conditions warrant a respirator's use. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

### Skin Protection/Glove Recommendations

Where skin contact is likely, wear gloves impervious to product; use of natural rubber (latex) or equivalent gloves is not recommended. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, whole body suits, or other protective clothing.

### Protective Materials

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: Safety glasses, Gloves, and Lab coat or apron.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Light brown to brown liquid	<b>Physical State</b>	Liquid
<b>Odor</b>	Sweet odor	<b>Color</b>	Light brown to brown
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	-12 °C (10 °F Approximate )	<b>Boiling Point</b>	198 °C (338 °F Approximate )
<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	Not available
<b>Evaporation Rate</b>	<1 (Butyl acetate = 1 )	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition Temperature</b>	398 °C (748 °F Ethylene glycol )	<b>Flash Point</b>	>93.3 °C (200 °F )
<b>Lower Explosive Limit</b>	3.2 vol% (Ethylene glycol )	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	15.3 vol% (Ethylene glycol )	<b>Vapor Pressure</b>	0.05 mmHg @ 68 °F (20° C )
<b>Vapor Density (air=1)</b>	2.1 (Air = 1 )	<b>Specific Gravity (water=1)</b>	1.11 (Water = 1 )
<b>Water Solubility</b>	(Complete )	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Kinematic viscosity</b>	Not available

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<b>Solubility (Other)</b>	Not available	<b>Density</b>	9.3 lb/gal (US )
<b>Volatility</b>	Not available.	<b>Molecular Weight</b>	62.1 (approximately)

## Section 10 - STABILITY AND REACTIVITY

### Reactivity

No reactivity hazard is expected.

### Chemical Stability

Stable under normal temperatures and pressures.

### Possibility of Hazardous Reactions

Will not polymerize under normal temperature and pressure conditions.

### Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

### Incompatible Materials

Acids, alkalies, oxidizing agents, reactive metals, reducing agents.

### Hazardous decomposition products

None under normal temperatures and pressures. See also SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.

## Section 11 - TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### Inhalation

May cause respiratory tract irritation, headache, drowsiness, dizziness, loss of coordination, central nervous system and respiratory system damage.

#### Skin Contact

May cause skin irritation, headache, drowsiness, dizziness, loss of coordination, and central nervous system, heart, liver, kidney and nervous system damage.

#### Eye Contact

Causes eye irritation.

#### Ingestion

Harmful if swallowed. May cause reproductive effects, headache, drowsiness, dizziness, loss of coordination, and central nervous system, heart, liver, kidney, and nervous system damage.

### Acute and Chronic Toxicity

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

##### Ethylene glycol (107-21-1)

Oral LD50 Rat 4700 mg/kg; Dermal LD50 Rat 10600 mg/kg

##### Diethylene glycol (111-46-6)

Oral LD50 Rat 12565 mg/kg; Dermal LD50 Rabbit 11890 mg/kg; Inhalation LC50 Rat >4600 mg/m<sup>3</sup> 4 h

##### Ethylene glycol acetate (542-59-6)

Oral LD50 Rat 8250 mg/kg

##### Acetic acid (64-19-7)

Oral LD50 Rat 3310 mg/kg; Dermal LD50 Rabbit 1060 mg/kg; Inhalation LC50 Rat 11.4 mg/L 4 h

##### Diethylene glycol monomethyl ether (111-77-3)

Oral LD50 Rat 4 mL/kg; Dermal LD50 Rabbit 650 mg/kg

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## Product Toxicity Data

### Acute Toxicity Estimate

Dermal	> 2000 mg/kg
Inhalation - Vapor	5.06 mg/L
Oral	> 2000 mg/kg

### Immediate Effects

Harmful if swallowed. Respiratory tract, skin, and eye irritation, central nervous system depression and damage, and heart, kidney, and respiratory system damage.

### Delayed Effects

Liver and kidney damage, reproductive effects, nervous system damage, central nervous system damage, heart damage, respiratory system damage.

### Irritation/Corrosivity Data

Causes respiratory tract irritation, skin irritation, eye irritation.

### Respiratory Sensitization

No information available for the product.

### Dermal Sensitization

No information available for the product.

### Component Carcinogenicity

Ethylene glycol	107-21-1
ACGIH:	A4 - Not Classifiable as a Human Carcinogen

### Germ Cell Mutagenicity

No information available for the product.

### Tumorigenic Data

No information available for the product.

### Reproductive Toxicity

Available data characterizes this substance as a reproductive hazard.

### Specific Target Organ Toxicity - Single Exposure

Respiratory and central nervous system, heart, kidneys.

### Specific Target Organ Toxicity - Repeated Exposure

Nervous, central nervous and respiratory system, kidneys, heart, and liver.

### Aspiration hazard

No information available for the product.

### Medical Conditions Aggravated by Exposure

Individuals with pre-existing liver, kidney, respiratory tract (nose, throat, and lungs), central nervous system, eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

### Additional Data

No additional information is available.

## Section 12 - ECOLOGICAL INFORMATION

### Component Analysis - Aquatic Toxicity

Ethylene glycol	107-21-1
Fish:	LC50 96 h Oncorhynchus mykiss 41000 mg/L; LC50 96 h Oncorhynchus mykiss 14 - 18 mL/L [static ]; LC50 96 h Lepomis macrochirus 27540 mg/L [static ]; LC50 96



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	h Oncorhynchus mykiss 40761 mg/L [static ]; LC50 96 h Pimephales promelas 40000 - 60000 mg/L [static ]; LC50 96 h Poecilia reticulata 16000 mg/L [static ]
Algae:	EC50 96 h Pseudokirchneriella subcapitata 6500 - 13000 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 46300 mg/L IUCLID
<b>Diethylene glycol</b>	<b>111-46-6</b>
Fish:	LC50 96 h Pimephales promelas 75200 mg/L [flow-through ]
Invertebrate:	EC50 48 h Daphnia magna 84000 mg/L IUCLID
<b>Acetic acid</b>	<b>64-19-7</b>
Fish:	LC50 96 h Pimephales promelas 79 mg/L [static ]; LC50 96 h Lepomis macrochirus 75 mg/L [static ]
Invertebrate:	EC50 48 h Daphnia magna 65 mg/L [Static ] EPA
<b>Diethylene glycol monomethyl ether</b>	<b>111-77-3</b>
Fish:	LC50 96 h Lepomis macrochirus 7500 mg/L [static ]; LC50 96 h Lepomis macrochirus 7500 mg/L; LC50 96 h Pimephales promelas 5741 mg/L
Algae:	EC50 72 h Desmodesmus subspicatus >500 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna >500 mg/L IUCLID

**Persistence and Degradability**

No information available for the product.

**Bioaccumulative Potential**

No information available for the product.

**Mobility**

No information available for the product.

**Other Toxicity**

No additional information is available.

<b>Section 13 - DISPOSAL CONSIDERATIONS</b>
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**Disposal Methods**

Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. This product, if discarded, is not expected to be a characteristic or listed hazardous waste. The responsibility for proper waste disposal lies with the owner of the waste. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of this product. Contact Safety-Kleen regarding proper recycling or disposal.

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**Section 14 - TRANSPORT INFORMATION**

**US DOT Information:**

UN/NA #: Not regulated as hazardous material.

Additional Info: Bulk Shipments containing 5000 lbs or greater (~1070 gallons of ethylene glycol):

UN 3082, Environmentally hazardous substance. Liquid, n.o.s. (Ethylene glycol), RQ, 9, PGIII.

**IATA Information:** Not regulated for transportation.

**IMDG Information:** Not regulated for transportation.

**TDG Information:** Not regulated for transportation.

International Bulk Chemical Code

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

<b>Ethylene glycol</b>	<b>107-21-1</b>
IBC Code:	Category Y
<b>Ethylene glycol acetate</b>	<b>542-59-6</b>
IBC Code:	Category Y
<b>Acetic acid</b>	<b>64-19-7</b>
IBC Code:	Category Z

**Section 15 - REGULATORY INFORMATION**

**Canada Regulations**

**CEPA - Priority Substances List**

<b>Ethylene glycol</b>	<b>107-21-1</b>
	Priority Substance List 2 (substance not considered toxic )

**Ozone Depleting Substances**

None of this product's components are on the list.

**Council of Ministers of the Environment - Soil Quality Guidelines**

<b>Ethylene glycol</b>	<b>107-21-1</b>
Residential and Parkland	960 mg/kg (dry weight )

**Council of Ministers of the Environment - Water Quality Guidelines**

None of this product's components are on the list.

**U.S. Federal Regulations**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<b>Ethylene glycol</b>	<b>107-21-1</b>
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ ; 2270 kg final RQ

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Acetic acid	64-19-7
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
Diethylene glycol monomethyl ether	111-77-3
SARA 313:	1 % de minimis concentration (applies to R-(OCH <sub>2</sub> CH <sub>2</sub> ) <sub>n</sub> -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' consisting of Carboxylic acid ester, Sulfate, Phosphate, Nitrate, or Sulfonate ) (related to Glycol ethers)

**SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories:**

Acute toxicity; Reproductive Toxicity; Skin Corrosion/Irritation; Respiratory/Skin Sensitization; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity

**U.S. State Regulations**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Ethylene glycol	107-21-1	Yes	Yes	Yes	Yes	Yes
Diethylene glycol	111-46-6	No	No	Yes	No	Yes
Acetic acid	64-19-7	Yes	Yes	Yes	Yes	Yes
Diethylene glycol monomethyl ether	111-77-3	No	Yes	No	Yes	Yes

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)**

THIS PRODUCT IS NOT FOR SALE OR USE IN THE STATE OF CALIFORNIA.

**Component Analysis - Inventory**

**Ethylene glycol (107-21-1)**

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No
KR - REACH CCA			MX	NZ	PH	TH-TECI	TW	VN (Draft)
No			Yes	Yes	Yes	Yes	Yes	Yes

**Diethylene glycol (111-46-6)**

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No
KR - REACH CCA			MX	NZ	PH	TH-TECI	TW	VN (Draft)
No			Yes	Yes	Yes	Yes	Yes	Yes

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**Ethylene glycol acetate (542-59-6)**

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No
KR - REACH CCA			MX	NZ	PH	TH-TECI	TW	VN (Draft)
No			No	No	Yes	No	Yes	Yes

**Acetic acid (64-19-7)**

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No
KR - REACH CCA			MX	NZ	PH	TH-TECI	TW	VN (Draft)
No			Yes	Yes	Yes	Yes	Yes	Yes

**Diethylene glycol monomethyl ether (111-77-3)**

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No
KR - REACH CCA			MX	NZ	PH	TH-TECI	TW	VN (Draft)
No			Yes	Yes	Yes	Yes	Yes	Yes

## Section 16 - OTHER INFORMATION

**NFPA Ratings**

Health: 2 Fire: 1 Instability: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**Summary of Changes**

Regulatory review and update.

**Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances);

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EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; KR REACH CCA - Korea Registration and Evaluation of Chemical Substances Chemical Control Act; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne - Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL - Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TH-TECI - Thailand - FDA Existing Chemicals Inventory (TECI); TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

## **Other Information**

### **Disclaimer:**

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