



# SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	<b>Liquid Wrench Hydraulic Jack Oil</b>		
<b>Other means of identification</b>			
SDS number	M3312		
Part No.	M3332, M3312		
Tariff code	2710.19.3040		
<b>Recommended use</b>	Hydraulic Fluid		
<b>Recommended restrictions</b>	None known.		
<b>Manufacturer/Importer/Supplier/Distributor information</b>			
<b>Manufacturer</b>			
<b>Company name</b>	Blumenthal Brands Integrated, LLC		
<b>Address</b>	600 Radiator Road Indian Trail, NC 28079		
<b>Telephone</b>	Customer Service	(704) 821-7643	
	Technical	(704) 821-7643	
<b>Website</b>	www.solvewithB.com		
<b>E-mail</b>	sds@solvewithB.com		
<b>Emergency phone number</b>	Poison Control (RMPDC)	(303) 623-5716	
	Poison Control (RMPDC)	(877) 740-5015	

## 2. Hazard(s) identification

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Reproductive toxicity (fertility, the unborn child)	Category 1A
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
<b>OSHA defined hazards</b>	Not classified.	

### Label elements



<b>Signal word</b>	Danger
<b>Hazard statement</b>	May be harmful if swallowed and enters airways. May damage fertility. May damage the unborn child. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
<b>Precautionary statement</b>	
<b>Prevention</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response</b>	If exposed or concerned: Get medical advice/attention. Collect spillage.
<b>Storage</b>	Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.

**Supplemental information**

NOTE: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The container label may not include the OSHA label elements listed in this document. Always carefully review the entire SDS and the product label prior to use in the workplace.

### 3. Composition/information on ingredients

**Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Mineral Oil		Mixture	90 - 100
Calcium Alkaryl Sulfonate		Proprietary	< 0.5
Calcium Long-chain Alkylphenate Sulfide		Proprietary	< 0.5
Long-chain Alkenyl Succinimide		Proprietary	< 0.5
Zinc dialkyldithiophosphate		68649-42-3	< 0.5
Other components below reportable levels			< 1

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Call a physician or poison control center immediately. Drink 1 or 2 glasses of water. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
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**Methods and materials for containment and cleaning up**

This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**7. Handling and storage****Precautions for safe handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Store locked up. Store in tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls/personal protection****Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Components	Type	Value
CADMIUM (CAS 7440-43-9)	TWA	0.005 mg/m3
ETHYLENE OXIDE (CAS 75-21-8)	STEL	5 ppm
	TWA	1 ppm
LEAD (CAS 7439-92-1)	TWA	0.05 mg/m3

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
1,4-dioxane (CAS 123-91-1)	PEL	360 mg/m3
		100 ppm
PROPYLENE OXIDE (CAS 75-56-9)	PEL	240 mg/m3
		100 ppm

**US. OSHA Table Z-2 (29 CFR 1910.1000)**

Components	Type	Value	Form
CADMIUM (CAS 7440-43-9)	Ceiling	0.6 mg/m3	Dust.
		0.3 mg/m3	Fume.
	TWA	0.2 mg/m3	Dust.
		0.1 mg/m3	Fume.

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
1,4-dioxane (CAS 123-91-1)	TWA	20 ppm	
CADMIUM (CAS 7440-43-9)	TWA	0.01 mg/m3	
		0.002 mg/m3	Respirable fraction.
ETHYLENE OXIDE (CAS 75-21-8)	TWA	1 ppm	

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
LEAD (CAS 7439-92-1)	TWA	0.05 mg/m <sup>3</sup>	
PROPYLENE OXIDE (CAS 75-56-9)	TWA	2 ppm	

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
1,4-dioxane (CAS 123-91-1)	Ceiling	3.6 mg/m <sup>3</sup> 1 ppm
ETHYLENE OXIDE (CAS 75-21-8)	Ceiling	9 mg/m <sup>3</sup> 5 ppm
	TWA	0.18 mg/m <sup>3</sup> 0.1 ppm
LEAD (CAS 7439-92-1)	TWA	0.05 mg/m <sup>3</sup>

**Biological limit values****ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
CADMIUM (CAS 7440-43-9)	5 µg/g	Cadmium	Creatinine in urine	*
	5 µg/l	Cadmium	Blood	*
LEAD (CAS 7439-92-1)	200 µg/l	Lead	Blood	*

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

**Exposure guidelines****US - California OELs: Skin designation**

1,4-dioxane (CAS 123-91-1)

Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

1,4-dioxane (CAS 123-91-1)

Skin designation applies.

**US - Tennessee OELs: Skin designation**

1,4-dioxane (CAS 123-91-1)

Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**

1,4-dioxane (CAS 123-91-1)

Can be absorbed through the skin.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

1,4-dioxane (CAS 123-91-1)

Can be absorbed through the skin.

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Chemical respirator with organic vapor cartridge and full facepiece. Applicable for industrial settings only.

**Skin protection****Hand protection**

Wear appropriate chemical resistant gloves. Applicable for industrial settings only.

**Other**

Use of an impervious apron is recommended. Applicable for industrial settings only.

**Respiratory protection**

Chemical respirator with organic vapor cartridge and full facepiece. Chemical respirator with organic vapor cartridge and full facepiece if threshold limits are exceeded. Applicable for industrial settings only.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical and chemical properties****Appearance**

Liquid Clear.

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Colorless.
<b>Odor</b>	Mild Petroleum
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	> 410.0 °F (> 210.0 °C)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	0.013 torr @ 25C
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	6.9 cSt
<b>Viscosity temperature</b>	212 °F (100 °C)
<b>Other information</b>	
<b>Density</b>	0.9 g/ml @ 15.6 C
<b>Explosive properties</b>	Not explosive.
<b>Flammability class</b>	Combustible IIIB estimated
<b>Kinematic viscosity</b>	31.7 mm <sup>2</sup> /s
<b>Kinematic viscosity temperature</b>	104 °F (40 °C)
<b>Oxidizing properties</b>	Not oxidizing.
<b>Percent volatile</b>	0.3 % estimated
<b>Pour point</b>	-40 °F (-40 °C)
<b>Specific gravity</b>	0.9
<b>VOC</b>	0.35 % estimated

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.

**Hazardous decomposition products**

No hazardous decomposition products are known.

**11. Toxicological information****Information on likely routes of exposure**

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

**Information on toxicological effects****Acute toxicity**

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
1,4-dioxane (CAS 123-91-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	7600 mg/kg
<b>Inhalation</b>		
LC50	Rat	46 mg/l, 2 Hours
<b>Oral</b>		
LD50	Rat	5150 mg/kg
CADMIUM (CAS 7440-43-9)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	63 - 259 mg/kg
ETHYLENE OXIDE (CAS 75-21-8)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Rat	1450 ppm, 4 Hours
<b>Oral</b>		
LD50	Rat	72 mg/kg
LEAD (CAS 7439-92-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg, 24 Hours
<b>Inhalation</b>		
LC50	Rat	> 5.05 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	> 2000 mg/kg
PROPYLENE OXIDE (CAS 75-56-9)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	950 - 1250 mg/kg, 4 Hours
<b>Inhalation</b>		
LC50	Mouse	1740 ppm, 4 Hours
<b>Oral</b>		
LD50	Rat	380 mg/kg

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

## Respiratory or skin sensitization

### ACGIH sensitization

PROPYLENE OXIDE (CAS 75-56-9)

Dermal sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

### IARC Monographs. Overall Evaluation of Carcinogenicity

1,4-dioxane (CAS 123-91-1)

2B Possibly carcinogenic to humans.

CADMIUM (CAS 7440-43-9)

1 Carcinogenic to humans.

ETHYLENE OXIDE (CAS 75-21-8)

1 Carcinogenic to humans.

LEAD (CAS 7439-92-1)

2B Possibly carcinogenic to humans.

PROPYLENE OXIDE (CAS 75-56-9)

2B Possibly carcinogenic to humans.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

CADMIUM (CAS 7440-43-9)

Cancer

ETHYLENE OXIDE (CAS 75-21-8)

Cancer

### US. National Toxicology Program (NTP) Report on Carcinogens

1,4-dioxane (CAS 123-91-1)

Reasonably Anticipated to be a Human Carcinogen.

CADMIUM (CAS 7440-43-9)

Known To Be Human Carcinogen.

ETHYLENE OXIDE (CAS 75-21-8)

Known To Be Human Carcinogen.

LEAD (CAS 7439-92-1)

Reasonably Anticipated to be a Human Carcinogen.

PROPYLENE OXIDE (CAS 75-56-9)

Reasonably Anticipated to be a Human Carcinogen.

**Reproductive toxicity** May damage fertility. May damage the unborn child.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Components	Species	Test Results
1,4-dioxane (CAS 123-91-1)		
<b>Aquatic</b>		
Fish	LC50 Inland silverside (Menidia beryllina)	6700 mg/l, 96 hours
CADMIUM (CAS 7440-43-9)		
<b>Aquatic</b>		
Crustacea	EC50 Water flea (Daphnia magna)	0.0491 mg/l, 48 hours
Fish	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.0024 - 0.0029 mg/l, 96 hours
ETHYLENE OXIDE (CAS 75-21-8)		
<b>Aquatic</b>		
Fish	LC50 Fathead minnow (Pimephales promelas)	73 - 96 mg/l, 96 hours
LEAD (CAS 7439-92-1)		
<b>Aquatic</b>		
Fish	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss)	1.17 mg/l, 96 hours

**Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

### Bioaccumulative potential

#### Partition coefficient n-octanol / water (log Kow)

1,4-dioxane	-0.27
ETHYLENE OXIDE	-0.3
PROPYLENE OXIDE	0.03

<b>Mobility in soil</b>	No data available.
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	D006: Waste Cadmium D008: Waste Lead The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

<b>DOT</b>	
<b>UN number</b>	Not available.
<b>UN proper shipping name</b>	Consumer commodity, MARINE POLLUTANT (Petroleum Distillate), Limited Quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	ORM-D
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	None
<b>Packing group</b>	Not available.
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Packaging exceptions</b>	156, 306
<b>Packaging non bulk</b>	156, 306
<b>Packaging bulk</b>	None
<b>IATA</b>	
<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	Yes
<b>ERG Code</b>	9L
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed with restrictions.
<b>Cargo aircraft only</b>	Allowed with restrictions.
<b>IMDG</b>	
<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT (Petroleum Distillate)
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes



EmS

F-A, S-F

**Special precautions for user**

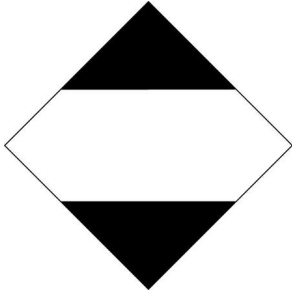
Read safety instructions, SDS and emergency procedures before handling.

Petroleum Distillate

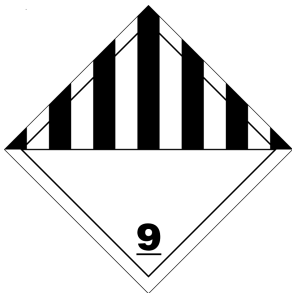
**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not established.

DOT



IATA; IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

**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 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

- 1,4-dioxane (CAS 123-91-1) Listed.
- CADMIUM (CAS 7440-43-9) Listed.
- ETHYLENE OXIDE (CAS 75-21-8) Listed.
- LEAD (CAS 7439-92-1) Listed.
- PROPYLENE OXIDE (CAS 75-56-9) Listed.
- Zinc dialkyldithiophosphate (CAS 68649-42-3) Listed.

**SARA 304 Emergency release notification**

- ETHYLENE OXIDE (CAS 75-21-8) 10 LBS
- PROPYLENE OXIDE (CAS 75-56-9) 100 LBS

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

- CADMIUM (CAS 7440-43-9) Cancer
- ETHYLENE OXIDE (CAS 75-21-8) Cancer
- LEAD (CAS 7439-92-1) Reproductive toxicity

CADMIUM (CAS 7440-43-9)	Lung
ETHYLENE OXIDE (CAS 75-21-8)	Reproductive toxicity
LEAD (CAS 7439-92-1)	Central nervous system
CADMIUM (CAS 7440-43-9)	Kidney
ETHYLENE OXIDE (CAS 75-21-8)	Mutagenicity
LEAD (CAS 7439-92-1)	Kidney
CADMIUM (CAS 7440-43-9)	Acute toxicity
ETHYLENE OXIDE (CAS 75-21-8)	Central nervous system
LEAD (CAS 7439-92-1)	Blood
ETHYLENE OXIDE (CAS 75-21-8)	Skin sensitization
LEAD (CAS 7439-92-1)	Acute toxicity
ETHYLENE OXIDE (CAS 75-21-8)	Skin irritation
	Eye irritation
	respiratory tract irritation
	Acute toxicity
	Flammability

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
ETHYLENE OXIDE	75-21-8	10	1000		
PROPYLENE OXIDE	75-56-9	100	10000		

**SARA 311/312 Hazardous chemical** No (Exempt)

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
1,4-dioxane	123-91-1	< 0.2
CADMIUM	7440-43-9	< 0.2
ETHYLENE OXIDE	75-21-8	< 0.2
LEAD	7439-92-1	< 0.2
PROPYLENE OXIDE	75-56-9	< 0.2

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

- 1,4-dioxane (CAS 123-91-1)
- CADMIUM (CAS 7440-43-9)
- ETHYLENE OXIDE (CAS 75-21-8)
- LEAD (CAS 7439-92-1)
- PROPYLENE OXIDE (CAS 75-56-9)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

- ETHYLENE OXIDE (CAS 75-21-8)
- PROPYLENE OXIDE (CAS 75-56-9)

**Safe Drinking Water Act (SDWA)** Not regulated.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

- ETHYLENE OXIDE (CAS 75-21-8) Other Flavoring Substances with OSHA PEL's

**US state regulations**

**California Proposition 65**



**WARNING:** This product can expose you to chemicals including Ethylene Oxide, which are known to the State of California to cause cancer, and Lead, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**California Proposition 65 - CRT: Listed date/Carcinogenic substance**

- 1,4-dioxane (CAS 123-91-1) Listed: January 1, 1988
- CADMIUM (CAS 7440-43-9) Listed: October 1, 1987
- ETHYLENE OXIDE (CAS 75-21-8) Listed: July 1, 1987
- LEAD (CAS 7439-92-1) Listed: October 1, 1992
- PROPYLENE OXIDE (CAS 75-56-9) Listed: October 1, 1988

**California Proposition 65 - CRT: Listed date/Developmental toxin**

- CADMIUM (CAS 7440-43-9) Listed: May 1, 1997

Ethylene Glycol (CAS 107-21-1)  
ETHYLENE OXIDE (CAS 75-21-8)  
LEAD (CAS 7439-92-1)

Listed: June 19, 2015  
Listed: August 7, 2009  
Listed: February 27, 1987

**California Proposition 65 - CRT: Listed date/Female reproductive toxin**

ETHYLENE OXIDE (CAS 75-21-8)  
LEAD (CAS 7439-92-1)

Listed: February 27, 1987  
Listed: February 27, 1987

**California Proposition 65 - CRT: Listed date/Male reproductive toxin**

CADMIUM (CAS 7440-43-9)  
ETHYLENE OXIDE (CAS 75-21-8)  
LEAD (CAS 7439-92-1)

Listed: May 1, 1997  
Listed: August 7, 2009  
Listed: February 27, 1987

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

1,4-dioxane (CAS 123-91-1)  
CADMIUM (CAS 7440-43-9)  
ETHYLENE OXIDE (CAS 75-21-8)  
LEAD (CAS 7439-92-1)  
PROPYLENE OXIDE (CAS 75-56-9)

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

**Issue date** 05-01-2015  
**Revision date** 05-29-2019  
**Version #** 02  
**HMIS® ratings** Health: 2  
Flammability: 0  
Physical hazard: 0

**NFPA ratings** Health: 2  
Flammability: 0  
Instability: 0

**NFPA ratings**



**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Revision information**

This document has undergone significant changes and should be reviewed in its entirety.