

SAFETY DATA SHEET

Preparation Date: 8/8/2019

Revision date 8/8/2019

Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: PR131
Product Name: PROPYLENE OXIDE, REAGENT

Other means of identification

Synonyms: Epoxypropane
 1,2-Epoxypropane
 2,3-Epoxypropane
 Methyl ethylene oxide
 Methyloxacyclopropane
 Methyl oxirane
 Oxyde de propylene (French)
 Propane, epoxy-
 Propene oxide
 1,2-Propylene oxide

CAS #: 75-56-9
RTECS # TZ2975000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Chemical intermediate.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
 14422 South San Pedro St.
 Gardena, CA 90248
 (310) 516-8000

Order Online At: <https://www.spectrumchemical.com>

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person: Tom Tyner (USA - West Coast)

Contact Person: Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)


Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Gases)	Category 3
Acute toxicity - Inhalation (Vapors)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Serious eye damage/eye irritation	Category 2A

Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 1

Label elements

Danger

Hazard statements
 Toxic in contact with skin or if inhaled
 Harmful if swallowed
 Toxic if inhaled
 Causes serious eye irritation
 May cause genetic defects
 Suspected of causing cancer
 May cause respiratory irritation
 Extremely flammable liquid and vapor



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Causes mild skin irritation

Precautionary Statements - Prevention

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Wear protective gloves/protective clothing/eye protection/face protection
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Avoid breathing mist or vapors
- Use only outdoors or in a well-ventilated area
- Keep away from heat/sparks/open flames/hot surfaces. — No smoking
- Keep container tightly closed
- Ground container and receiving equipment
- Use explosion-proof equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Keep cool

Precautionary Statements - Response

In case of fire: Use CO2, dry chemical, or foam to extinguish.
 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 attention.

Call a POISON CENTER or physician if you feel unwell
Wash contaminated clothing before reuse
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.
IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell
Rinse mouth

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Propylene Oxide	75-56-9	100

4. FIRST AID MEASURES

First aid measures

- General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.
- Skin Contact:** Toxic in contact with skin. Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Continue flushing with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
- Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention.
- Inhalation:** Toxic by inhalation. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.
- Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

- Symptoms**
- Causes serious eye irritation
 - Moderate eye irritation
 - May cause corneal injury
 - Mild skin irritation
 - Irritating to respiratory system
 - May cause coughing and shortness of breath
 - Dyspnea (Difficulty breathing and shortness of breath)
 - Nosebleeds
 - Sore throat
 - Hoarseness of the voice
 - Central nervous system effects
 - May affect the cardiovascular system
 - May affect the liver

It may affect the blood
It may affect the urinary system
Ingestion may cause nausea, vomiting, and diarrhea

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media:

Carbon dioxide (CO₂). Dry chemical. Alcohol-resistant foam. Water spray.

Unsuitable Extinguishing Media:

Do not use a solid (straight) water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Hazardous combustion products

Carbon Monoxide, Carbon Dioxide.

Specific hazards

Extremely flammable. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Fire may produce irritating, corrosive and/or toxic gases.

Special Protective Actions for Firefighters

Specific Methods:

No information available

Special Protective Equipment for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

Environmental precautions Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep refrigerated. Store at 2-8 deg. C. Store in a segregated and approved area. Flushed with nitrogen. Store away from incompatible materials.

Incompatible Materials:

Copper
Copper alloys
Strong acids
Caustics
Bases
Oxidizing agents
Amines
Iron
Anhydrous metal chlorides
Peroxides
Inorganic chlorides

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Propylene Oxide	75-56-9	100 ppm TWA 240 mg/m ³ TWA	None	2 ppm TWA	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Propylene Oxide	75-56-9	2 ppm TWA 4.7 mg/m ³ TWA	2 ppm TWA	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
Propylene Oxide	75-56-9	20 ppm TWA 48 mg/m ³ TWA	2 ppm TWA

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

- Eye protection:** Goggles
- Skin and body protection:** Chemical resistant apron
Long sleeved clothing
Gloves
- Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
- Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Liquid

Appearance:

No information available.

Color:

Colorless.

Odor:

No information available.

Taste

No information available.

Formula

C₃H₆O

Molecular/Formula weight (g/mole):

58.08

Flammability (solid, gas)

no data available

Flashpoint (°C/°F):

-37°C/-35°F

Flash Point Tested according to:

Closed cup

Autoignition Temperature (°C/°F):

449°C/840°F

Lower Explosion Limit (%):

2.1

Product code: PR131

Product name: PROPYLENE OXIDE,
REAGENT

Page 6 / 14

Upper Explosion Limit (%):
38.5

Melting point/range(°C/°F):
-112°C/-170°F

Decomposition temperature(°C/°F):
No information available

Boiling point/range(°C/°F):
34°C/93°F

Bulk density:
No information available

Density (g/cm³):
No information available

Specific gravity:
0.8304

pH
No information available

Vapor pressure @ 20°C (kPa):
59.2 @ 20 deg. C
71.7 @ 25 deg. C

Evaporation rate:
No information available

Vapor density:
2.0

VOC content (g/L):
No information available

Odor threshold (ppm):
No information available

**Partition coefficient
(n-octanol/water):**
log Kow = 0.03

Viscosity:
0.28 centipoise @ 25 deg. C

Miscibility:
Miscible with Acetone
Miscible with Methanol
Miscible with Benzene
Miscible with Carbon tetrachloride

Solubility:
Soluble in Water
Solubility in Water: 40.5% @ 20 deg.
C; 590,000 mg/l @ 25 deg. C

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Copper
Copper alloys
Strong acids
Caustics
Bases
Oxidizing agents
Amines
Iron
Anhydrous metal chlorides
Peroxides
Inorganic chlorides

Hazardous decomposition products: No information available.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation. Skin.

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Component Information

Propylene Oxide	
CAS No	75-56-9

LD50/oral/rat = 520 mg/kg Oral LD50 Rat (LOLI); 380 mg/kg (RTECS)

LD50/oral/mouse = 440 mg/kg

LD50/dermal/rabbit = 1244 mg/kg Dermal LD50 Rabbit

LD50/dermal/rat = No information available

LC50/inhalation/rat = 4000 ppm Inhalation LC50 Rat 4 h; 9.48 mg/L Inhalation LC50 Rat 4 h

LC50/inhalation/mouse = 1740 ppm 4H; 4.126 mg/l 4H

Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =

Value - Acute Toxicity = 520 mg/kg

LD50/oral/mouse =

Value - Acute Tox = 440 mg/kg

LD50/dermal/rabbit

Value - Acute Toxicity = 1244 mg/kg

LD50/dermal/rat

VALUE - Acute Tox = No information available

LC50/inhalation/rat

VALUE-Vapor = 9.48 mg/l (4-hr)

VALUE-Gas = 4000 ppm (4-hr)

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = 4.126 mg/l 4H

VALUE - Gas = 1740 ppm 4 H

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:

Mild skin irritation. Toxic in contact with skin.

Eye Contact:

Causes serious eye irritation. Moderately irritating to the eyes. May cause corneal injury.

Inhalation

Toxic by inhalation. Irritating to respiratory system. Can cause lung irritation and coughing. May cause dyspnea (difficulty breathing or shortness of breath). May cause nausea, vomiting. May cause diarrhea. May cause headache. May affect behavior/central nervous system (dizziness, lightheadedness, passing out). May

cause drowsiness/sleepiness. It may affect behavior/central nervous system (ataxia). May cause cyanosis. May cause weakness. May cause nosebleeds, hoarseness, and/or sore throat.

Ingestion May affect behavior/central nervous system (somnolence, ataxia). May affect behavior/central nervous system (depression or excitement). May affect liver. It may affect the urinary system.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prolonged or repeated inhalation may cause bronchitis with coughing, phlegm, and/or shortness of breath. Prolonged or repeated ingestion may affect the liver. Prolonged or repeated ingestion may affect the blood. Prolonged or repeated contact may cause skin allergy. Prolonged or repeated inhalation may affect the cardiovascular system.

Sensitization: No information available.

Mutagenic Effects: May cause genetic defects
Mutations in microorganisms
Experiments with bacteria and/or yeast have shown mutagenic effects
Cytogenic analysis - hamster ovary
Cytogenic Analysis: human lymphocyte
Sister Chromatid Exchange - Hamster ovary
Sister Chromatid Exchange (human lymphocyte)

Carcinogenic effects: Suspected of causing cancer. Possibly carcinogenic to humans.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Propylene Oxide	75-56-9	Group 2B - Possibly carcinogen to humans - Monograph 60 [1994] Supplement 7 [1987]	A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans	Reasonably Anticipated To Be A Human Carcinogen	Present	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available

Developmental Effects: No information available

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure respiratory system.

STOT - repeated exposure No information available.
Target Organs: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Propylene Oxide - 75-56-9

Algae/aquatic plants EC50: =240mg/L (96h, Pseudokirchneriella subcapitata)

Fish LC50: =215mg/L (96h, Lepomis macrochirus)

Crustacea EC50: =350mg/L (48h, Daphnia magna)

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soil No information available

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Propylene Oxide	75-56-9	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN1280
Proper Shipping Name: Propylene oxide
Hazard Class 3
Subsidiary Class No information available
Packing group: I
Emergency Response Guide Number 127P
Marine Pollutant No data available
DOT RQ (lbs): 100 lb/45.4 kg
Special Provisions N34, T11, TP2, TP7
Symbol(s): No information available
Description: UN1280, Propylene oxide, 3, I

TDG (Canada)

UN-No: UN1280
Proper Shipping Name: Propylene oxide
Hazard Class 3

Subsidiary Risk: No information available
Packing Group: I
Marine Pollutant Description: No Information available
UN1280, Propylene oxide, 3, I

ADR

UN Number: UN1280
Proper Shipping Name: Propylene oxide
Transport hazard class(es): 3
Packing group: I
Subsidiary Risk: No information available
Description: UN1280, Propylene oxide, 3, I

IMDG

UN-No: UN1280
Proper Shipping Name: Propylene oxide
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: I
Marine Pollutant EMS: F-E
Description: UN1280, Propylene oxide, 3, I

RID

UN Number: UN1280
Proper Shipping Name: Propylene oxide
Transport hazard class(es): 3
Subsidiary Risk: No information available
Packing group: I
Description: UN1280, Propylene oxide, 3, I

ICAO (air)

UN-No: UN1280
Proper Shipping Name: Propylene oxide
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: I
Description: UN1280, Propylene oxide, 3, I

IATA

UN Number: UN1280
Proper Shipping Name: Propylene oxide
Transport hazard class(es): 3
Subsidiary Risk: No information available
Packing group: I
Precautionary Statements - Response: 3H
Special Provisions: No information available
Description: UN1280, Propylene oxide, 3, I

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Propylene Oxide	75-56-9	PresentACTIVE	Present KE-24565	Present	Present (2)-219	Present	Present	Present 200-879-2


U.S. Regulations

Propylene Oxide

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 1615
New Jersey (EHS) List: 1615 500 lb TPQ
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
New Jersey TCPA - EHS: 7700lbTQ
Pennsylvania RTK: Environmental hazard
 Special hazardous substance
Pennsylvania RTK - Environmental Hazard List Present
Pennsylvania RTK - Special Hazardous Substances Present
Minnesota - Hazardous Substance List: Present
New York Release Reporting - List of Hazardous Substances:
 100 lb RQ
Louisiana Reportable Quantity List for Pollutants: Listed
California Directors List of Hazardous Substances: Present
FDA - Direct Food Additives 21 CFR 172.892 (<=25%)
FDA - 21 CFR - Total Food Additives 172.892, 175.105, 176.210
- List Sourced from EAFUS

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

 **WARNING:** This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov.

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Propylene Oxide	75-56-9	carcinogen	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Propylene Oxide	75-56-9	100 lb final RQ 45.4 kg final RQ	100 lb EPCRA RQ	None	None	0.1 % de minimis concentration

U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Propylene Oxide	75-56-9	Not Applicable	Not Applicable

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component
 Propylene Oxide
 75-56-9 (100)

WHMIS 2015 Hazard Classification
 Flammable liquids - Category 1: H224 Extremely flammable liquid and vapour.; Acute toxicity - Oral - Category 4: H302 Harmful if

swallowed.; Acute toxicity - Dermal - Category 4: H312 Harmful in contact with skin.; Acute toxicity - Inhalation - Category 3: H331 Toxic if inhaled.; Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.; Carcinogenicity - Category 2: H351 Suspected of causing cancer.; Specific target organ toxicity - Single exposure - Category 3: H335 May cause respiratory irritation.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Propylene Oxide	75-56-9	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Propylene Oxide	75-56-9	Present
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Propylene Oxide	75-56-9	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Propylene Oxide	75-56-9	Flammable liquids - Flam. Liq. 1: H224 Extremely flammable liquid and vapour.; Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed.; Acute toxicity - Dermal - Acute Tox. 3: H311 Toxic in contact with skin.; Acute toxicity - Inhalation - Acute Tox. 3: H331 Toxic if inhaled.; Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Eye Irrit. 2: H319 Causes serious eye irritation.; Germ cell mutagenicity - Muta. 1B: H340 May cause genetic defects.; Carcinogenicity - Carc. 1B: H350 May cause cancer.; Specific target organ toxicity - Single exposure - STOT SE 3: H335 May cause respiratory irritation.603-055-00-4

EU - CLP (1272/2008)

R-phrases

- R45 - May cause cancer
- R46 - May cause heritable genetic damage
- R12 - Extremely flammable
- R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed
- R36/37/38 - Irritating to eyes, respiratory system and skin

S-phrases

- S53 - Avoid exposure - obtain special instructions before use
- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Propylene Oxide	75-56-9	F+; R12 Xn; R20/21/22 Xi; R36/37/38 Carc.Cat.2; R45 Muta.Cat.2; R46	No information	S: 53-45

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

F+ - Extremely flammable

Xi - Irritant

Xn - Harmful



16. OTHER INFORMATION

Preparation Date: 8/8/2019
Revision date: 8/8/2019
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet