## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

- Trade name POLYPROPYLENE GLYCOL 2000

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Uses of the Substance / Mixture**

- Oil & gas industry

### 1.3 Details of the supplier of the safety data sheet

**Company**

Silver Fern Chemical, Inc.
121 W De La Guerra St STE B
Santa Barbara, CA 93101
Phone: 1-866-282-3384
Info@silverfernchemical.com

### 1.4 Emergency telephone

24 Hour Emergency Contact
Infotrac 1-800-535-5053 (USA & Canada)
Outside USA & Canada 1-352-323-3500

## SECTION 2: Hazards identification

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

### 2.1 Classification of the substance or mixture

- Not a hazardous product according to the OSHA Globally Harmonized System (GHS).

**Hazards associated with a change in physical form:**

No data available

**Hazards resulting from a reaction with other chemicals under normal conditions of use:**

No data available

### 2.2 Label elements

**OSHA Hazard Communication Standard (29 CFR 1910.1200)**

- Not a hazardous product according to the OSHA Globally Harmonized System (GHS).

### 2.3 Other hazards which do not result in classification

None identified

## SECTION 3: Composition/information on ingredients

### 3.1 Substance

- Chemical nature POLYPROPYLENE GLYCOL

**Hazardous Ingredients and Impurities**

| Chemical name | Identification numberCAS No./Unique ID | Concentration [%] |
|---|---|---|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | 25322-69-4 | >= 99 - <= 100 |

*****The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.
**Company reference for Substance without CAS No.

### 3.2 Mixture

- Not applicable, this product is a substance.

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

**General advice**

- First responder needs to protect himself.
- When symptoms persist or in all cases of doubt seek medical advice.

**In case of inhalation**

- Move to fresh air.
- Keep at rest.
- Consult a physician if necessary.

**In case of skin contact**

- Take off contaminated clothing and shoes immediately.
- Wash off immediately with soap and plenty of water.
- Use a mild soap if available.
- Get medical attention immediately if symptoms occur.

**In case of eye contact**

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If eye irritation persists, consult a physician.

**In case of ingestion**

- Do not induce vomiting without medical advice.
- Rinse mouth with water.
- Do not give anything to drink.
- Keep at rest.
- Consult a physician if necessary.

### 4.2 Most important symptoms and effects, both acute and delayed

- no data available

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

**Notes to physician**

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## SECTION 5: Firefighting measures

| | |
|---|---|
| **Flash point** | >365 °F (185 °C) |
| **Autoignition temperature** | No data available |
| **Flammability / Explosive limit** | No data available |

### 5.1 Extinguishing media

**Suitable extinguishing media**

- Extinguishing media - small fires
- Water spray
- Carbon dioxide (CO2)
- Multipurpose powders
- Alcohol-resistant foam

- Extinguishing media - large fires
- Water spray
- Multipurpose powders
- Alcohol-resistant foam

**Unsuitable extinguishing media**

- Do not use a solid water stream as it may scatter and spread fire.

### 5.2 Special hazards arising from the substance or mixture

**Specific hazards during fire fighting**

- The pressure in sealed containers can increase under the influence of heat.

- Hazardous decomposition products formed under fire conditions.
- High concentrations of toxic or harmful products may remain in the residual liquid once the fire has been extinguished.

**Hazardous combustion products:**

- Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

### 5.3 Advice for firefighters

**Special protective equipment for fire-fighters**

- Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.
- Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing.

**Specific fire fighting methods**

- Stay upwind.

- Fight fire with normal precautions from a reasonable distance.

- Do not use a solid water stream as it may scatter and spread fire.
- Cool down the containers / equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and the product.
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Further information**

- Evacuate personnel to safe areas.

- Intervention only by capable personnel who are trained and aware of the hazards of the product.
- Never approach containers which have been exposed to fire, without cooling them sufficiently.

- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Avoid inhalation, ingestion and contact with skin and eyes.
- Wear chemical resistant personal protective equipment.
- Wear suitable gloves.
- Wear suitable protective clothing.

- In the case of dust or aerosol formation use respirator with an approved filter.
- In the case of vapor formation use a respirator with an approved filter.

- Wear as appropriate:
- Safety glasses with side-shields

- Stop leak if safe to do so.

- For further information refer to section 8 "Exposure controls / personal protection."

### 6.2 Environmental precautions

- Prevent further leakage or spillage if safe to do so.
- Contain the spilled material by diking.
- The product should not be allowed to enter drains, water courses or the soil.

- Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies

### 6.3 Methods and materials for containment and cleaning up

- Stop leak if safe to do so.
- Dam up with sand or inert earth (do not use combustible materials).

- Soak up with inert absorbent material.
- Shovel or sweep up.
- Keep in suitable, closed containers for disposal.
- Never return spills in original containers for re-use.

- Wash with plenty of water and detergent.
- Clean contaminated surface thoroughly.
- Recover the cleaning water for subsequent disposal.
- Decontaminate tools, equipment and personal protective equipment in a segregated area.

- Dispose of in accordance with local regulations.

**Additional advice**

- Material can create slippery conditions.

**6.4 Reference to other sections**

- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

- Handle in accordance with good industrial hygiene and safety practice.
- Risk assessments, along with appropriate identification and implementation of the corresponding risk controls, are to be conducted by competent person(s) on the intended work processes involving this product.

- Advice on safe handling

- If dust production may be expected from further processing, handling or by other means:
- Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
- Provide for appropriate exhaust ventilation and dust collection at machinery.
- Dust must be extracted directly at the point of origin.
- Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

- Wear personal protective equipment.
- Wear suitable protective clothing.

- This product, as is, is not known to cause any adverse effect on inhalation, ingestion and contact with skin and eyes
- An appropriate level of caution is advised towards any potential exposures.

- For personal protection, see section 8.

**Hygiene measures**

- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

- The user is responsible for monitoring the working environment in accordance with local laws and regulations.
- The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
- Air sampling and / or biological monitoring of the substances shown in Section 8.1 are to be conducted using methods accepted by local competent authorities responsible for workplace safety and health.

### 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures/Storage conditions**

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.

- Keep containers tightly closed in a dry, cool and well-ventilated place.
- Keep away from open flames, hot surfaces and sources of ignition.
- Keep away from incompatible materials to be indicated by the manufacturer.

- Keep away from: Hazardous reactions may occur on contact with certain chemicals. (Refer to the list of incompatible materials section 10: "Stability-Reactivity").

**Packaging material**

**Suitable material**
- Plastic materials.
- Coated metals.
- Stainless steel

**Requirements for storage rooms and vessels**

**Recommended storage temperature**
: < 110 °F

### 7.3 Specific end use(s)

- no data available

## SECTION 8: Exposure controls/personal protection

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

### 8.1 Control parameters

**Components with workplace occupational exposure limits**

| Components | Value type | Value | Basis |
|---|---|---|---|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | WEEL | 10 mg/m3 | American Industrial Hygiene Association |

| | |
|---|---|
| | Form of exposure : aerosol |

**8.2 Exposure controls**

**Control measures**

**Engineering measures**

- Risk assessments, along with appropriate identification and implementation of the corresponding risk controls, are to be conducted by competent person(s) on the intended work processes involving this product.
- Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures :
- Facilities and equipment easily cleanable.
- Effective exhaust ventilation system.
- Extract at emission point.
- Ensure adequate ventilation.
- Ensure that extracted air cannot be returned to the workplace through the ventilation system.
- If dust production may be expected from further processing, handling or by other means:
- Dust must be extracted directly at the point of origin.
- Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

**Individual protection measures**

**Respiratory protection**

- This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.
- When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

**Hand protection**

- Where there is a risk of contact with hands, use appropriate gloves.
- Gloves must be inspected prior to use.
- Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

***Suitable material***

- Neoprene
- Nitrile rubber
- butyl-rubber

**Eye protection**

- Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.
- Eye contact should be prevented through the use of:
- Safety glasses with side-shields

**Skin and body protection**

- Lightweight protective clothing.
- Footwear protecting against chemicals.
- Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures**

- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this

material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.
- The user is responsible for monitoring the working environment in accordance with local laws and regulations.
- The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
- Air sampling and / or biological monitoring of the substances shown in Section 8.1 are to be conducted using methods accepted by local competent authorities responsible for workplace safety and health.

**Protective measures**
- Emergency equipment immediately accessible, with instructions for use.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.
- The protective equipment must be selected in accordance with current local regulations and in cooperation with the supplier of the protective equipment.

## SECTION 9: Physical and chemical properties

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Physical state** | liquid (68 °F (20 °C)) |
| **Color** | colorless to yellow. |
| **Odor** | sweet |
| **Odor Threshold** | No data available |
| **Melting point/freezing point** | No data available |
| **Initial boiling point and boiling range** | Boiling point/boiling range:<br>Decomposes below the boiling point. |
| **Flammability (solid, gas)** | No data available |
| **Flammability (liquids)** | No data available |
| **Flammability / Explosive limit** | No data available |
| **Flash point** | > 365 °F (185 °C) |
| **Autoignition temperature** | No data available |
| **Decomposition temperature** | No data available |
| **pH** | 7.7 - 8.8 |
| **Viscosity** | Viscosity, kinematic : 300 mm2/s ( 77 °F (25 °C)) |
| **Solubility** | Water solubility:<br>slightly soluble |
| **Partition coefficient: n-octanol/water** | No data available |
| **Vapor pressure** | No data available |

| | |
|---|---|
| **Density** | ca. 1.0 g/cm3 ( 68 °F (20 °C)) |
| **Relative density** | > 1 ( 77 °F (25 °C)) |
| **Relative vapor density** | No data available |
| **Particle characteristics** | No data available |
| **Evaporation rate (Butylacetate = 1)** | No data available |

**9.2 Other information**

| | |
|---|---|
| **Oxidizing properties** | Not considered as oxidizing., Structure-activity relationship (SAR) |

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

- Stable at normal ambient temperature and pressure.

**10.2 Chemical stability**

- Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

- No dangerous reaction known under conditions of normal use.
- Hazardous polymerization does not occur.

**10.4 Conditions to avoid**

- Keep away from open flames, hot surfaces and sources of ignition.
- Avoid excessive heat for prolonged periods of time.

**10.5 Incompatible materials**

- Strong oxidizing agents

**10.6 Hazardous decomposition products**

- On combustion or on thermal decomposition (pyrolysis), releases:
- Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

**Acute toxicity**

**Acute oral toxicity**

| | |
|---|---|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | LD50 : - Rat , male and female<br>Method: OECD Test Guideline 401<br>Not classified as hazardous for acute oral toxicity according to GHS.<br>category approach<br>Unpublished reports |
| **Acute inhalation toxicity** | No data available |

**Acute dermal toxicity**

| | |
|---|---|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | LD50 : - Rabbit , male and female<br>Method: OECD Test Guideline 402<br>Not classified as hazardous for acute dermal toxicity according to GHS.<br>category approach<br>Unpublished reports |
| **Acute toxicity (other routes of administration)** | No data available |

**Skin corrosion/irritation**

| | |
|---|---|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | Rabbit<br>No skin irritation<br>Method: according to a standardized method<br>category approach<br>Unpublished reports |

**Serious eye damage/eye irritation**

| | |
|---|---|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | Rabbit<br>No eye irritation<br>Method: Directive 67/548/EEC, Annex V, B.5.<br>category approach<br>Unpublished reports |

**Respiratory or skin sensitization**

| | |
|---|---|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | Buehler Test - Guinea pig<br>Does not cause skin sensitization.<br>Method: OECD Test Guideline 406<br>category approach<br>Unpublished reports<br>Local lymph node assay - Mouse<br>Does not cause skin sensitization.<br>Method: OECD Test Guideline 429<br>category approach<br>Unpublished reports |

**Mutagenicity**

**Genotoxicity in vitro**

| | |
|---|---|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | category approach<br><br>Ames test<br>with and without metabolic activation<br><br>negative<br>Method: OECD Test Guideline 471<br>Unpublished reports<br><br>By analogy<br><br>Chromosome aberration test in vitro<br>Strain: Human lymphocytes<br>with and without metabolic activation<br><br>negative<br>Method: OECD Test Guideline 473<br>Unpublished reports |
| **Genotoxicity in vivo** | No data available |
| **Carcinogenicity** | No data available |

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP
IARC
OSHA

**Toxicity for reproduction and development**

| | |
|---|---|
| **Toxicity to reproduction / fertility** | No data available |
| **Developmental Toxicity/Teratogenicity** | No data available |

**STOT**

**STOT-single exposure**

| | |
|---|---|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | Routes of exposure: Ingestion, Skin contact<br>The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria. |

| | |
|---|---|
| **STOT-repeated exposure** | No data available |
| **Experience with human exposure** | No data available |
| **Aspiration toxicity** | No data available |

## SECTION 12: Ecological information

**12.1 Toxicity**

**Aquatic Compartment**

**Acute toxicity to fish**

| | |
|---|---|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | - 96 h : - Danio rerio (zebra fish)<br>static test<br><br>Method: OECD Test Guideline 203<br>category approach<br>Not harmful to fish (LC/LL50 > 100 mg/L)<br>Unpublished reports |

**Acute toxicity to daphnia and other aquatic invertebrates**

| | |
|---|---|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | - 48 h : - Daphnia magna (Water flea)<br>static test<br>Method: OECD Test Guideline 202<br>category approach<br>Not harmful to aquatic invertebrates. (EC/EL50 > 100 mg/L)<br>Unpublished reports |

**Toxicity to aquatic plants**

| | |
|---|---|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | - 72 h : - Desmodesmus subspicatus (green algae)<br>static test<br>Method: OECD Test Guideline 201<br>category approach<br>Not harmful to algae (EC/EL50 > 100 mg/L)<br>Unpublished reports |

| | |
|---|---|
| | - 72 h : - Desmodesmus subspicatus (green algae)<br>static test<br>Method: OECD Test Guideline 201<br>category approach<br>No adverse chronic effect observed up to and including the threshold of 1 mg / L.<br>Unpublished reports |
| **Toxicity to microorganisms** | |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | - 3 h : - activated sludge<br>static test<br>Method: OECD Test Guideline 209<br>category approach<br>Unpublished reports |
| **Chronic toxicity to fish** | No data available |
| **Chronic toxicity to daphnia and other aquatic invertebrates** | |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | category approach |
| | - 21 Days - Daphnia magna (Water flea)<br>semi-static test<br>Method: OECD Test Guideline 211<br>No adverse chronic effect observed up to and including the threshold of 1 mg / L.<br>Unpublished reports |

**12.2 Persistence and degradability**

| | |
|---|---|
| **Abiotic degradation** | No data available |
| **Physical- and photo-chemical elimination** | No data available |
| **Biodegradation** | No data available |
| **Degradability assessment** | |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | The product is not considered to be rapidly degradable in the environment |

**12.3 Bioaccumulative potential**

| | |
|---|---|
| **Partition coefficient: n-octanol/water** | |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | Not potentially bioaccumulable |
| **Bioconcentration factor (BCF)** | No data available |

**12.4 Mobility in soil**

| | |
|---|---|
| **Adsorption potential (Koc)** | No data available |
| **Known distribution to environmental compartments** | No data available |

**12.5 Results of PBT and vPvB assessment**

| | |
|---|---|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | Not persistent, bioaccumulative, and toxic (PBT).<br>Not very persistent and very bioaccumulative (vPvB). |

**12.6 Other adverse effects**

**Ecotoxicity assessment**

| | |
|---|---|
| **Short-term (acute) aquatic hazard** | |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | Not harmful to aquatic life (LC/LL50, EC/EL50 > 100 mg/L) |
| **Long-term (chronic) aquatic hazard** | |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy- | Not classified due to data which are conclusive although insufficient for classification. |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Product Disposal**

- Dispose of in accordance with local regulations.

- Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

***Prohibition***
- Do not discharge directly into the environment.

**Advice on cleaning and disposal of packaging**

- Empty remaining contents.

- Clean using steam.
- Clean with the help of detergent. Avoid using any solvent.
- Monitor the residual vapors.
- Dispose of rinse water in accordance with local and national regulations.

- Containers that cannot be cleaned must be treated as waste.

- Dispose of contents/ container to an approved waste disposal plant.
- Dispose of in accordance with local regulations.

- Where possible recycling is preferred to disposal or incineration.
- The recycled material must be completely dry and free of pollutants.

***Prohibition***
- Do NOT dispose of untreated packaging with industrial waste.
- Do not dispose of with domestic refuse.

## SECTION 14: Transport information

**49 CFR**
not regulated

**TDG**
not regulated

**NOM**
not regulated

**IMDG**

not regulated

**IATA**
not regulated

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

## SECTION 15: Regulatory information

**15.1 Notification status**

| Inventory Information | Status |
|---|---|
| United States TSCA Inventory | - All substances listed as active on the TSCA inventory |
| Canadian Domestic Substances List (DSL) | - Listed on Inventory |
| Australian Inventory of Industrial Chemicals (AIIC) | - Listed on Inventory |
| Japan. ENCS - Existing and New Chemical Substances Inventory | - Listed on Inventory |
| Korea. Korean Existing Chemicals Inventory (KECI) | - Listed on Inventory |
| China. Inventory of Existing Chemical Substances in China (IECSC) | - Listed on Inventory |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS) | - Listed on Inventory |
| Taiwan Chemical Substance Inventory (TCSI) | - Listed on Inventory |
| New Zealand. Inventory of Chemical Substances | - All components are listed on the NZIoC inventory. Additional HSNO obligations may apply. Please refer to Section 15 of SDS for New Zealand. |
| EU. European Registration, Evaluation, Authorization and Restriction of Chemical (REACH) | - When purchased from a legal entity based in the EEA ("European Economic Area"), this product is compliant with the registration provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, and/or registered. When purchased from a legal entity outside of the EEA, please contact your local representative for additional information. |
| Korea. Act on Registration and Evaluation of Chemicals | - When purchased from a legal entity based in Korea, this product is compliant with "Act on Registration and Evaluation of Chemicals" (AREC or K-REACH, Article 10) as all its components are either excluded, exempt, and/or (pre)registered. When purchased from a legal entity outside of Korea, please contact your local representative for |

| | |
|---|---|
| | additional information. |

**15.2 Federal Regulations**

**US. EPA EPCRA SARA Title III**

**SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370)**

No SARA Hazards

**Section 313 Toxic Chemicals (40 CFR 372.65)**
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)**
This material does not contain any components with a section 302 EHS TPQ.

**Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)**

| Components | CAS-No. | Reportable quantity |
|---|---|---|
| Propylene Oxide | 75-56-9 | 100 lb |

**Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)**

| Components | CAS-No. | Reportable quantity |
|---|---|---|
| Propylene Oxide | 75-56-9 | 100 lb |

**US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)**

| Components | CAS-No. | Reportable quantity |
|---|---|---|
| Propylene Oxide | 75-56-9 | 100 lb |

**15.3 State Regulations**

**US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)**

Please contact your local sales representative if you have questions and need more information concerning this product under California's Proposition 65 statute (www.p65warnings.ca.gov).

## SECTION 16: Other information

**Further information**

- Distribute new edition to clients

**Date Prepared:** 02/13/2026

**Key or legend to abbreviations and acronyms used in the safety data sheet**

- TWA: 8-hr TWA
- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NTP: National Toxicology Program
- IARC: International Agency for Research on Cancer
- NIOSH: National Institute for Occupational Safety and Health
- ADR: European Agreement on International Carriage of Dangerous Goods by Road.

- ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
- RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- IATA: International Air Transport Association.
- ICAO-TI: Technical Specification for Safe Transport of Dangerous Goods by Air.
- IMDG: International Maritime Dangerous Goods.
- TWA: Time weighted average
- ATE: Estimated value of acute toxicity
- EC: European Community number
- CAS: Chemical Abstracts Service.
- LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).
- LC50: Substance concentration causing 50% (half) death in the test animals group.
- EC50: Effective Concentration of the substance causing the maximum of 50%.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- vPvB: Very Persistent and Very Bioaccumulative.
- SEA: Classification, labeling, packaging regulation
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- STOT: Specific Target Organ Toxicity

**Not all acronyms listed above are referenced in this SDS.**

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