



Safety Data Sheet

I. Identification of the Substance/ Preparation and Company

Product Information: Polyethylene Glycol (PEG4000)

Other Information: —

Suggested Use and Prohibitions: PEGs is a kind of polyether chemicals and widely used in numerous fields. They can be applied in medical、food and chemical industry. Low molecular weight PEGs have good solubility and are used as solvent、emulsifier、stabilizer and water-soluble ointment substrate. High molecular weight PEGs are used as plasticizer、lubricant and soluble ointment substrate. High molecular weight PEGs are used as plasticizer、lubricant and

Information on Producer/Supplier Name, Addresses, Phone:

Lin Yuan Plant, Oriental Union Chemical Corporation

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II. Hazard Identification:

Hazard Category: —

Labeled Contents: —

Symbols: —

Warning sign: —

Hazard Warning Information: —

Hazard Prevention Measures: —

Other Hazards: —

III. Composition / Information on Ingredients (Single)

English Name: Polyethylene Glycol

Synonyms: —

Chemical Abstracts Number (CAS No.): 25322-68-3

Percentage for Chemical Ingredient (%): 100% HO(CH₂CH₂O)_nH MW=4000

IV. First Aid Measures

Emergency and First Aid Procedures:

Inhalation:

1. Remove pollution sources or move the patient to area with plenty of fresh air.
2. Artificial respiration is performed immediately when breathing is stopped, and oxygen is given when breathing is difficult.
3. Seek medical attention immediately.

Skin Contact: Take off contaminated clothing and wash the affected area with plenty of water. If the skin is inflamed, treat it.

Eye Contact: Use plenty water to wash contaminated eye(s) for 15 minutes, seek medical attention immediately.

Ingestion: Drink plenty of water or saline and spit it out, then seek medical attention.

Major Disease and Harm Effects: —

First-Aid Personal Protection: —

Prompt to Doctor: —

V. Fire Fighting Measure

Suitable Extinguishing Media:

Dry Chemical, carbon dioxide, water mist or spray.

Special Exposure Hazards: —

Special Extinguishing Procedure: Withdraw from all personnel

Special Protection Equipment:

Fire fighters must wear air respirators, protective gloves and fire-fighting outfits.

VI. Accidental Release Measures

Personal Protection:

1. Restrict personnel from entering the leaking area until completely cleaned.
2. Make sure that only trained personnel are allowed to clean up.
3. Wear appropriate personal protection equipment.

Environmental Protection:

1. Ventilate and change the air in the leakage area.
2. Remove all ignition sources.
3. Notify the relevant government safety, hygiene and environmental protection agencies.
4. Do not drain higher concentrations of liquids into rivers.

Methods for Cleaning Up:

1. Do not touch the leaking substance.
2. Prevent the spilled substances from entering the drainage, canals or closed spaces.
3. If safety permits, try to stop or reduce the spillage.
4. Surround the leakage with sand, soil or other adsorbing substances that will not react with the leaking substance.

VII. Handling and Storage

Handling:

1. Extinguish all ignition sources (such as sparks, embers, hot surfaces) and keep far away from heat and soldering.
2. Smoking Strictly Prohibited.
3. Clear other flammable substances from the work and storage areas.
4. Use exhaust ventilation system that will not produce sparks, qualified explosion-proof facilities and safe electrical system in large quantity operation areas.
5. Install leakage and fire detection facilities, and proper automatic fire extinguishing system in the operation and storage areas.
6. Keep passageways and exits free from obstacles.
7. Closed all valves when not in use. Open the valve cap only for use.

Storage:

1. Store in areas that are dry, well ventilated and without direct exposure to sunlight, far from heat, ignition sources and incompatible substances.
2. Storage area should be labeled clearly.
3. Smoking is strictly prohibited in the storage area.
4. The container should be placed vertically against the ground and fixed to the wall or pillar.
5. Separate from strong oxidizers or organic peroxides during storage.
6. Keep containers that are empty or not in use tightly closed and prevent damages.
7. Use qualified appropriate storage tanks, storage rooms, storage cabinets, and storage buildings.
8. Check regularly for damages or leakage.
9. Empty steel cylinders and filled cylinders should be stored separately with closed valves.
10. Must have the necessary emergency rescue equipment for fire and leakage at all times.

VIII. Exposure Control / Personal Protection:

Engineering Control:

1. Use stand-alone anti-corrosion exhaust ventilation system.
2. Exhaust opening must be connected directly outdoors.
3. Provide sufficient fresh air supply to supplement the air discharged by the exhaust ventilation system.

Control Factor

TWA	STEL	CEILING	BEIs
—	—	—	—

Personal Protection Equipment:

Respiratory Protection: No special requirements.

Hand Protection: Protective gloves.

Eye Protection: Safety glasses with side shields..

Skin Protection:

long sleeves overalls, aprons, work boots.

Hygiene Procedures:

1. After work, remove the contaminated clothes as quickly as possible. Throw away or wash clothes thoroughly before wearing again. Notify the laundry personnel of the danger of the contaminated clothes.
2. Smoking and eating are strictly prohibited in work areas.
3. Wash hands thoroughly after handling this substance.
4. Keep the work area clean.

IX. Physical and Chemical Properties / Characteristics

Appearance: Colourless flaky solid

Odor: —

Odor threshold: —

Melting point: 54~58 °C

pH value: 4.0~7.0 (5% aq.)

Boiling Point / Boiling Range: —

Flammability: —

Flash Point: > 170°C

Decomposition Temperature: —

Test Method: Close Cup

Spontaneous Temperature: —

Exposure Limits: —

Vapor Pressure: —

Vapor Density: —

Specific Gravity: —

Solubility: soluble in water

Log kow: —

Percent volatile: —

X. Stability and Reactivity

Stability: Stable under normal conditions.

Special Conditions of Hazardous Reaction: —

Conditions to Avoid: —

Incompatibility: Strong oxidizers、Organic peroxides

Hazardous Decomposition Products: —

XI. Toxicological Information

Exposure route: skin contact, eye contact

Symptoms: —

Acute Toxicity:

Skin contact: —

Eye contact: —

LD50 (test animal, absorption route): >25,000 mg/kg (Rat, ingestion)

Chronic: —

XII. Ecological Information

Eco-toxicity: —

Durability and Degradability: —

Biological Accumulation: The resolving of organism in water is good.

Fluidity in soil: —

Other adverse effects: —

XIII. Disposal Information

Disposal Information:

1. Dispose according to the waste substance clearing laws and regulations.
2. Follow the warehouse conditions in storing waste substances waiting for disposal.
3. Dispose according to special incinerating or hygienic landfill laws.

XIV. Transport Information

UN Transport Name: Non-hazardous substances, No UN **Transport** name

The United Nations Number (Un-No): Non-hazardous substances, No UN number

Transport Hazard Classification: Non-hazardous substances

Packaging Category: No available data

Marine Pollutant (Yes/No) : No

Special Transport Way and Note: No special transport way

XV. Regulation Information

Apply Regulation:

1. Enforcement Rules of the Labor Safety and Health Act
2. Regulations of Hazard Communication on Dangerous and Harmful Material
3. Traffic Safety Regulations
4. Standards for the Storage, Clearance, and Disposal of Industrial Waste

XVI. Other Information

Reference	<ol style="list-style-type: none"> 1. Council of Labor Affairs, Executive Yuan, Taiwan, GHS in Taiwan website. http://ghs.cla.gov.tw/tw/ghs_main.asp 2. Oriental Union Chemical Corporation website http://www.oucc.com.tw/tw 			
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Date	2023/07/01			
Note	The "-" symbol in the text above indicates that there is no current available data while the "/" symbol indicates that this field is not applicable to this substance.			