

BE-LONG CORPORATION

P.O.Box 139, Gulou Post office, Nanjing 210008, China

Tel : ++86-25-84712602 Fax: ++86-25-84709922

<http://www.be-longgroup.com>

Email: business@be-long.com.cn



Propylene glycol

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Identification of the substance or preparation

Product name : [Propylene glycol](#)

Product grade(s) : Pharmaceutical Grade, Tech. Grade

Chemical Name : Propylene glycol

Synonyms : 1,2-Dihydroxypropane, 1,2-Propanediol, Methyl ethylene glycol, Propane-1,2-diol

Molecular formula : C₃H₈O₂

Molecular Weight : 76.0999

1.2. Use of the Substance/Preparation

Recommended use : - drug agent

- a carrier in fragrance oils.

- a moisturizer in medicines, cosmetics, food, toothpaste, mouth wash and so on.

- a cooling agent for beer and wine glycol

1.3. Company/Undertaking Identification

Address : P.O.Box. 139 Gulou Post Office

Nanjing, 210008 China

1.4. Emergency and contact telephone numbers

Emergency telephone: +86-25-8471 2605

Contact telephone number : +86-25-8471 5120 (Product information)

2. HAZARDS IDENTIFICATION

2.1. Emergency Overview:

NFPA: H= 2 F= 0 I= 1 S= None

HMIS: H= 2 F= 0 R= 1 PPE = Supplied by User; dependent on local conditions

General Information

It's worth it, safety comes first.

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Appearance : Clear, viscous, colorless liquid, practically odorless, hygroscopic.

Odour : Odorless

Main effects

- Causes moderate skin irritation. Contact with the skin may cause erythema, dryness, and defatting.
- Causes mild eye irritation. Contact may cause irritation, tearing, and burning pain.
- Low hazard for usual industrial handling. May cause respiratory tract irritation.
- May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Low hazard for usual industrial handling. May cause hemoglobinuric nephrosis. May cause changes in surface EEG.

2.2. Potential Health Effects:

Inhalation

No adverse health effects via inhalation

Eye contact

May cause transitory stinging and tearing

Skin contact

Mild irritant and defatting agent, especially on prolonged contact.

Ingestion

Relatively non-toxic. Ingestion of sizable amount (over 100ml) may cause some gastrointestinal upset and temporary central nervous system depression. Effects appear more severe in individuals with kidney problems.

Chronic Exposure: Lactic acidosis, stupor and seizures have been reported following chronic ingestion.

Aggravation of Pre-existing Conditions:

Kidney disorders

3. COMPOSITION/INFORMATION ON INGREDIENTS

Propylene Glycol

CAS-No. : 57-55-6

Pharmaceutical Grade Concentration : $\geq 99.5\%$

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Tech. Grade Concentration : 99.0%

4. FIRST AID MEASURES

4.1. Inhalation

Remove to fresh air. Not expected to require first aid measures.

4.2. Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Call a physician if irritation persists.

4.3. Skin contact

Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists

4.4. Ingestion

Not expected to require first aid measures. Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice

Note to Physician:

In case of ingestion, monitor for acidosis and central nervous system changes. Exposed persons with previous kidney dysfunction may require special treatment.

5. FIRE-FIGHTING MEASURES

5.1. Suitable extinguishing media

Dry chemical, foam, water or carbon dioxide

5.2. Special exposure hazards in a fire

None

5.3. Hazardous decomposition products

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, acetic acid, propionaldehyde, lactic acid, pyruvic acid.

5.4. Special protective equipment for fire-fighters

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Extinguishing media: Use alcohol foam. Cool containers with flooding quantities of water until well after fire is out.

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6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators : A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

6.2. Environmental precautions

Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust.

6.3. Methods for cleaning up

- Collect the product with suitable means.
- Keep in a tightly closed containers for disposal.

7. HANDLING AND STORAGE

7.1. Handling

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

7.2. Storage

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure Limit Values

1, 2-propanediol

_ AIHA Workplace Environmental Exposure Level (WEEL): TWA = 10mg/m³.

8.2. Engineering controls

Production process, fully closed ventilation.

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8.3. Personal protective equipment

8.3.1. Respiratory protection

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

8.3.2. Hand protection

- chemical resistant gloves
- Suitable material: Neoprene

8.3.3. Eye protection

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

8.3.4. Skin and body protection

Wear protective gloves and clean body-covering clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General Information

Appearance :	Clear oily liquid
Odour :	Odorless.
Solubility:	Miscible in water
Specific Gravity	1.0361 @ 20C/4C
pH:	No information found
% Volatiles by volume @ 21C (70F):	No information found
Boiling Point	188.2C (370F)
Melting Point:	-59C (-74F)
Vapor Density (Air=1):	2.6
Evaporation Rate (BuAc=1):	0.01

9.2. Important health safety and environmental information

10. STABILITY AND REACTIVITY

10.1. Stability

\ Stable under ordinary conditions of use and storage

10.2. Conditions to avoid

Heat, flames, ignition sources and incompatibles.

10.3. Materials to avoid

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Water

Fire

Strong oxidizing agents

10.4. Hazardous decomposition products

Carbon dioxide and carbon monoxide may form when heated to decomposition. Aldehydes or lactic, pyruvic or acetic acids may also be formed

11. TOXICOLOGICAL INFORMATION

Toxicological data

Acute oral toxicity

rat LD50: 20g/kg.

Skin rabbit LD50: 20.8g/kg.

Irritation: Eye rabbit/Draize, 500 mg/24H mild.

Investigated as a mutagen and reproductive effector

INFORMATION

12.1. Environmental Fate:

When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into groundwater. When released into water, this material is expected to readily biodegrade. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days

12.2 Environmental Toxicity:

No information found.

13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements

14. TRANSPORT INFORMATION

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-not regulated

15. REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 57-55-6: 0

Canada

CAS# 57-55-6 is listed on Canada's DSL List

US Federal

TSCA

CAS# 57-55-6 is listed on the TSCA Inventory

16. OTHER INFORMATION

Ratings :

NFPA (National Fire Protection Association)

Health: **0** Flammability: **1** Reactivity: **0**

Label Hazard Warning:

CAUTION! MAY CAUSE IRRITATION TO SKIN AND EYES.

Label Precautions:

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Label First Aid:

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. Call a physician if irritation develops or persists.

Product Use:

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Laboratory Reagent.

Revision Information:

MSDS Section(s) changed since last revision of document include: 8.

<http://mono-propylene-glycol.com/>