Material Safety Data Sheet

1. Product and Company Identification

Product Name： Propylene Glycol (Food Grade)

Synonyms: 1,2-propylene glycol; 1,2-propanediol; 1,2-dihdroxypropane; mono propylene glycol

Cas No.: 57-55-6

Supplier: Yueyang Changde New Materials Co., Ltd.

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Telephone： +86-730-30629670

Zip Code: 414000

Applications: Food additives;
Used in food, animal feed, spices, cosmetics, etc.

2. Hazards identification

Emergency Overview

Appearance	**Liquid**
Color	**Colorless**
Odor	**Odorless**

This product is not hazardous per the Globally Harmonized System of Classification and Labelling (GHS).

Health Hazard	Skin irritation is small, no adverse effect on people.
Environment Hazard	None
Physical and chemical hazards	Reacts violently with strong oxidants and alkalines, a danger of fire

3.Composition/Information on Ingredients

Component	Concentration	CAS NO.
1,2-propylene glycol	99.5%-100%	57-55-6

4. First-aid measures

If inhaled	Under normal use, no treatment is required.If symptoms persist, seek medical advice
In case of skin contact	Wash off with clean water of flow.
In case of eye contact	Rinse with clean water of flow or normal saline
If swallowed	Unless ingested in large quantities, treatment is generally not required, but better to seek medical advice.

5. Fire-fighting measures

Hazardous characteristics	In case of fire, high heat flammable.
Suitable extinguishing media	Use water spray, powder, foam, dry chemical or carbon dioxide.
Harmful combustion	Carbon monoxide, carbon dioxide.

Special protective actions for fire-fighters

If possible, move containers from the fire to an open area. Spray water to keep the fire container cool until the end of the fire; Containers in the fire must be evacuated immediately if they become discolored or produce sound from the safety relief device.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Evacuate people from the contaminated area to a safe area and isolate them. Cut off the fire. Wear a gas mask and a normal fire protection suit.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Mixed with sand or other non-combustible adsorbent for absorption, and then collected and transported to the waste disposal site. Or burn it on the spot if it is safe to do so.

Methods and materials for containment and cleaning up

A large number of leak: to build a causeway or trenching asylum. and then collect, transfer, recycling or harmless treatment after the waste.

7. Handling and storage

Precautions for safe handling

Use in a well-ventilated area.
DO NOT store or use in confined spaces.
Build-up of mists or vapours in the atmosphere must be prevented.
Avoid breathing in mists or vapours.
Do not use near welding or other ignition sources and avoid sparks.
Do not smoke.
Wear appropriate protection.
It is essential that all who come into contact with this material maintain high standards of personal hygiene ie.
Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in a cool and wellventilated place, room temperature.
Protect from sunlight. Do not allow contact with air. Protect from moisture. Avoid contact with oxidising agents.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits no data available

Expose controls

Engineering Control Measures:

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

Eye/face protection

Safety glasses with side-shields. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

Skin protection

Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized.

Respiratory protection

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In misty atmospheres, use an approved particulate respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

9. Physical and chemical properties

Physical state:	liquid
Color:	colorless
Odor:	odorless
PH:	-
Melting Point (℃)：	-56
Boiling Point(°C):	185-189
Flash Point (°C):	Closed up: 99°C
Critical Temperature (°C):	no data available
Autoignition Temperature (°C):	-
Relative Density (Water=1):	1.04g/mLat 25°C
Relative Vapour Density (air=1):	2.6 literature
Saturated Vapor Pressure (kpa):	no data available
Combustion Heat(KJ/mol):	no data available
Critical Pressure（MPa):	no data available
Octanol/Water Partition Coefficient:	no data available
Upper Explosive Limits %（V/V):	12.6% vol estimated
Lower Explosive Limits %（V/V):	2.6% vol estimated
Solubility:	soluble in water.

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. Stability and reactivity

Reactivity:	no data available
Chemical Stability:	Stable under proper operation and storage conditions
Possibility of Hazardous Reactions:	Polymerization will not occur.
Conditions to avoid exposure：	Exposure to elevated temperatures can cause product to decompose. Generation of gas during decomposition can cause pressure in closed systems. Avoid direct sunlight or ultra violet sources.
Incompatible Materials:	Avoid contact with: Strong oxidizers. Strong acids.
Hazardous Decomposition products	Decomposition products depend upon temperature, air supply and the presence of other materials.. Decomposition products can include and are not limited to:. Aldehydes.. Alcohols.. Ethers.. Organic acids..

11. Toxicological information

Acute toxicity	**Acute oral toxicity** Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. Based on product testing: LD50, Rat, > 20,000 mg/kg **Acute dermal toxicity** Prolonged skin contact is unlikely to result in absorption of harmful amounts. Based on product testing: LD50, Rabbit, > 2,000 mg/kg No deaths occurred at this concentration. **Acute inhalation toxicity** At room temperature, exposure to vapor is minimal due to low volatility. Based on product testing: LC50, Rabbit, 2 Hour, dust/mist, 317.042 mg/l No deaths occurred at this concentration.
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory or skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
STOT-single exposure	no data available
STOT-repeated exposure	no data available
Aspiration hazard	no data available

12. Ecotoxicological information

Toxicity

Toxicity to fish: no data available
Toxicity to daphnia and other aquatic invertebrates: no data available
Toxicity to algae: no data available
Toxicity to microorganisms: no data available

Persistence and degradability	no data available
Bioaccumulative potential	no data available
Mobility in soil	no data available
Other adverse effects	no data available

13. Disposal considerations

Disposal methods

Confirm disposal procedures with environmental engineer and local regulations. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point. Liquid components can be disposed of by incineration.

14. Transport information

UN Number	Not dangerous goods

UN Proper Shipping Name	-
Transport hazard class(es)	-
Packing Group	-
Packing Method	-
Marine Pollutants (Yes/No)	no
Classification for transport	Not regulated for transport

15. Regulatory information

China. Inventory of Existing Chemical Substances in China (IECSC) (IECSC)
All intentional components are listed on the inventory, are exempt, or are supplier certified.

16. Other information

Date of issue: Sep.1st, 2022

Compilation illustration

This MSDS is based on the description of our products from the point of view of safety requirements. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use.

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.