

Number: 001

## Section 1. Product and Company Identification

Product name: Propylene Glycol Monomethyl Ether Propionate

Synonyms: -

Recommended use and Restrictions on use: -

Manufacturer, Importer, or Supplier: Shiny Chemical Industrial Co., Ltd.

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# Section 2. Hazards Identification

Classification:

- 1. Flammable liquids, Category 3
- 2. Specific target organ toxicity single exposure, Category 3
- 3. Serious eye damage/eye irritation, Category 2A

Label elements:



Hazard pictograms: Flame, Exclamation mark Signal word: Warning Hazard Statements:

- 1. Flammable liquid and vapour.
- 2. May cause respiratory irritation.
- 3. May cause drowsiness or dizziness.
- 4. Causes serious eye irritation.

Precautionary statements:

- 1. Avoid contact with skin.
- 2. Avoid contact with eyes.
- 3. If contacted with eyes, flush with plenty of water before seek for medical attention.

4. If swallowed, seek for medical attention. (Show the label to medical personnel) Other Hazards: -



## Section 3. Composition/Information on Ingredients

Pure substance

Chemical Name: Propylene Glycol Monomethyl Ether Propionate

Synonyms: Methotate, PMP, 1-methoxy-2-propanol propionate

CAS NO. : 148462-57-1

Weight: ≥99.5%

## Section 4. First Aid Procedures

Description of first aid measures:

- Inhalation:
- 1. Ensure self-safety based protection procedures before rescue.
- 2. Remove contamination sources or move victims to fresh air.
- 3. If breathing stops, have trained personnel administer artificial respiration.
- 4. Get medical attention immediately.
- Skin contact:
- 1. Don't touch such a chemical material directly. Wear leak-proof gloves if necessary.
- 2. Remove contaminated clothing, shoes, and leather (such as watchstraps and belts).
- 3. Wash contaminated sites tenderly with warm water for at least 20 minutes.
- 4. Get medical attention immediately if irritation persists.
- 5. Clean contaminated clothing, shoes, and leather thoroughly before reuse or abandon.
- Eye contact:
- 1. Immediately lift eyelids, flushing eyes with plenty of water for at least 20 minutes until removing contaminated materials.
- 2. Avoid flushing to the unaffected eye.
- 3. Wash repetitively if irritation persists.
- 4. Get medical attention immediately.
- Ingestion:
- 1. Never give anything by mouth to victims will soon lose consciousness or lose consciousness already or with the convulsion.
- 2. Have conscious victims gargle with water thoroughly.
- 3. Don't induce vomiting.
- 4. Have victim drink 240 ~ 300 mL of water.
- 5. If vomiting occurs, lean victim forward to reduce the risk of ingesting vomits.
- 6. Repeat administering water.
- 7. Get medical attention immediately.



The most Important Symptoms and Hazardous Effects:

- 1. Health effects: Moderate risk.
- 2. Environmental impacts: Please consult Category No.12.
- 3. Physical and chemical hazards: No evidence of damage is shown.

Protection for emergency personnel: -

Notes to Physicians: -

## Section 5. Firefighting Measures

Suitable extinguishing media:

- 1. Chemical dry.
- 2. Carbon dioxide.
- 3. Alcohol foam.
- 4. Water mist.

Special hazards during firefighting: -

Firefighting procedures:

- 1. Don't enter the fire area without proper protection.
- 2. Evacuate and extinguish fire from safe distance or protected areas.
- 3. It will produce pressure to break storage tanks.
- 4. Flames will propagate and increase risks.
- 5. Cool down with water mist or spouts to avoid froth or vapor explosion.
- 6. The burning liquids float on water, so it is inappropriate to use dilute water to extinguish.
- 7. When the liquids flushing to sewers or public water systems, report to the authority.

Protective equipment for firefighters:

- 1. Eyes: Wear goggles (shields).
- 2. Respiration: Wear protective masks on both head and face.
- 3. Gloves: Solvent-proof gloves, boots.
- 4. Other: Emergent eyewash fountains and safety showers.

### Section 6. Accidental Release Measures

Personal precautions: Wear appropriate personal protective equipment.

Environmental precautions:

- 1. Block large spills.
- 2. Avoid leaks flushing to sewers or public water systems.
- 3. Report to firefighting or hygiene units.

Methods for cleaning up:

- 1. Remove all sources of ignition.
- 2. Absorb small spills or cover with fine sand.



### 3. After blocking large spills, recycle and handle absorbed pollutants.

#### Section 7. Handling and Storage

Handling:

- 1. Keep away from sparks, naked fires and other ignition sources. Label no smoking in workplace.
- 2. Use minimal amount in a well-ventilated place. Avoid producing vapors or mist droplets.
- 3. Use ventilation systems and electric equipment with no sparks and earth connection to avoid becoming ignition sources.

Storage:

- 1. Use approved containers to store flammable liquids in workplace.
- 2. Storage tanks have earth connection. Transformation packs should connect with same electric potential. (Earth clamps must contact with naked metal)
- 3. Prepare emergency apparatus of extinguishing fire and handling leaks at any time.
- 4. Label and close containers tightly even not use. Empty containers may have risk residues.
- 5. Store in a shady, cool, dry, and well-ventilated place that sunshine cannot directly illuminate.
- 6. Keep away from heat, ignition sources, and incompatible substances, such as oxides and alkalis.
- 7. Store in labeled and appropriate containers and prevent from damage.
- 8. Non-use containers and empty barrels should keep close.
- 9. Use appropriate tanks, barrels, cabinets, rooms and buildings to store.
- 10. Consider installing spill detection and alarm systems.
- 11. Limit storage and restrain personnel from entering this district. Post warning marks in an appropriate place.
- 12. Separate storage areas from employee-centered workplace.
- 13. Do a flow inspection of leaks and damages regularly.
- 14. Prepare fire extinguish and emergency apparatus in storage areas and the nearby.
- 15. Obey relevant regulations of storage and handling for flammables or combustibles.

#### Section 8. Exposure controls

Engineering controls: -					
Control parameters					
TWA	STEL	CEILING	BEIs		



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Personal protective equipment:

- Respiratory protection: Protective masks on both head and face.
- Hand protection: Solvent-proof gloves.
- Eye protection: Goggles.
- Skin and physical protection: Coveralls.

Hygiene measures:

- Personal well-trained hygiene practices. 1.
- 2. Wash hands before toilet, eating, drinking, and smoking.
- Use soap and water to wash after working, and remove dust off the clothing. 3.

## Section 9. Physical and Chemical Properties

Appearance: Transparent (colorless)	Odor: Sweet odor	
Odor threshold: -	Melting point: -	
pH:Acidity (wt %) max: 0.02	Boiling point/Boiling range: 161°C /157 ~ 167°C	
Flammability (solid, gas): -	Flash point: 56°C	
Decomposition temperature: -	Test method: close cup	
Auto-ignition temperature: 351°C	Explosion limits: 0.6% ~ 20.0%	
Vapor pressure: 0.9 mmHg (20°C)	Vapor density: 5.1	
Density: 0.95 (Water = 1)	Solubility: 5.2 (20°C)	
Partition coefficient (n-octanol/water, log K <sub>ow</sub> ): -	Volatility rate: -	

### Section 10. Stability and Reactivity

Chemical stability: Stable.

Possibility of hazardous reactions: No evidence of hazardous response is shown.

Conditions to avoid: Air, Oxygen, Heat, Spark, Flames, Ignition sources, and Oxidation.

Materials to avoid: Strong oxidants will increase risks of explosion.

Hazardous decomposition products: Carbon oxide, volatile materials, etc.

### Section 11. Toxicological Information

Exposure Route: Skin, inhalation, ingestion, eye.

Symptoms: -

Acute toxicity:

- Inhalation: It may irritate respiratory tract and mucous membrane.
- Skin: No severe symptoms show health effects. It may cause skin irritation.
- Eyes: It may cause moderate irritation, including burning, weeping, red and



#### swollen.

- Ingestion: No adequate symptoms show harmful effects after ingesting.
- LD<sub>50</sub> (animal test, entry): >12,000 mg/kg (rat, oral < skin)
- LC<sub>50</sub> (animal test, entry): 6,072 ppm (rat)

Chronic / Long-term toxicity: Repetitive or long exposure will cause nose irritation.

# Section 12. Ecological Information

Ecological toxicity:

- 1. LC<sub>50</sub> (fish): -
- 2. EC<sub>50</sub> (aquatic invertebrates): -

3. Bioconcentration factor (BCF): -

Persistence and degradability:

- 1. Biological Oxygen Demand (BOD): lb/lb in 5 days.
- 2. When released into the water, this material is expected to biodegrade.
- 3. When released into the air, this material is expected to react with free oxyhydrogen radicals and have a half-life of about day.
- 4. Moderately toxic to aquatic organisms.
- Half-life (Air): -
- Half-life (Water surface): -
- Half-life (Groundwater): -
- Half-life (Soil): -

Bioaccumulative potential: -

Mobility in soil: -

Other adverse effects: -

# Section 13. Disposal Considerations

Waste disposal:

- 1. Spilled liquid and vapor may ignite a fire.
- 2. Staffs should wear appropriate personal protective equipments to enter spilled areas to remove all sources of ignition.
- 3. Block entrances to avoid leaks flushing to sewers or public water systems.
- 4. Report to firefighting or hygiene units.
- 5. Walks paths are slippery so it is appropriate to cover or absorb with fine sand or block large spills to handle and restore.
- 6. Use pure materials to absorb small spills.

# Section 14. Transport Information

United Nations Number (UN No.): 1993

UN Proper Shipping Name: Flammable liquids, N.O.S.

Transport Hazard classes: 3



Packaging Group: III

Marine pollutant (Yes/No): No

Specific Transport Measures and Precautionary Conditions: Handle carefully and keep away from children.

### Section 15. Regulatory Information

Applicable Regulations:

- 1. Labor Safety and Health Law.
- 2. Dangerous Chemical Material Symbol Act.
- 3. Fire Services Act.

#### Section 16. Other Information

	1. CHEMINFO database, CCINFO CD-RAW, 98-2		
	2. HAZARDTEXT database, TOMES PLUS CD-RAW, Vol.41, 1999		
References	3. RTECS database, TOMES PLUS CD-RAW, Vol.41, 1999		
	4. HSDB database, TOMES PLUS CD-RAW, Vol.41, 1999		
	5. Hazardous Substances Data Bank, EPA		
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Notes	The symbol " - " in this sheet indicates no available information; the		
	symbol " / " indicates the information is not applicable to the		
	substance.		