

Number: 01

Section 1: Product and Company Identification

Product Name: Propylene Glycol Monomethyl Ether Propionate
Other Name: -
Recommended use and Restrictions on use:
Manufacturer or Supplier Name : Shiny Chemical Industrial Co., Ltd . Address: No.5, Yeong Gong 1st Rd., Yeong An Dist., Kaohsiung City 82841, Taiwan, R.O.C. Telephone: +886-7-861-9171 ext 711~714
Emergency Phone No: +886-7-861-9171ext 711~714 Fax: +886-7-622-2620

Section 2: Hazards Identification

Hazard Material Category: Flammable liquids Category NO.3, Serious eye damage/eye irritation Category NO.2A.

Label Content:



Label Statements: Flames, Warning

Signal Words: 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 Material

Chemical Name: PROPYLENE GLYCOL MONOMETHYL ETHER PROPIONATE
Synonymous: METHOTATE,PMP,1-METHOXY-2-PROPANOL PROPIONATE
CAS NO.: 148462-57-1
% By Weight: ≥ 99.5%



Section 4: First Aid Measures

The First Aid Measures for Different Exposure Routes:

Inhalation:

5. Ensure self-safety based protection procedures before rescue.
6. Remove contamination sources or move victims to fresh air.
7. If breathing stops, have trained personnel administer artificial respiration.
8. 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. Have victim drink 240~300ml of water.
4. If vomiting occurs, lean victim forward to reduce the risk of ingesting vomits.
5. Repeat administering water.
6. 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.
4. Specific hazards: No data are available.

The Protection of First Aiders : -

Notes to Physicians: -

Section 5: Fire Fighting Measures

Suitable Fire Extinguishing Media: Chemical dry, carbon dioxide, alcohol foam, water mist.

Specific Hazards May be Encountered During Fire-Fighting :



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

Specific Equipment for the Protection of Fire-Fighters:

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 equipments.

Environment Needing Attention: Block large spills. Avoid leaks flushing to sewers or public water systems. Report to fire fighting or hygiene units.

Spill Cleanup Measure: Remove all sources of ignition. Absorb small spills or cover with fine sand. After blocking large spills, recycle and handle absorbed pollutants.

Section 7: Handling and Storage Methods

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 equipments 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 and Personal Protection

Engineering Controls: -

Guideline Information

TWA	TLV-STEL	CEILING	BEI
-	-	-	-

Personal Protection Equipment:

Respiratory Protection: Protective masks on both head and face.

Hand Protection Description: Solvent-proof gloves.

Eye Protection: Goggles.

Skin and Body Protection Description: Coveralls.

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

Section 9: Physical and Chemical Properties

Physical State/Appearance: Transparent (colorless).	Odor: Sweet odor.
Odor Threshold: - (monitor), - (censor).	Melting Point: -
pH: Acidity (wt %) MAX 0.02	Boiling Point/Range: 161°C/ 157~167°C
Flammability: -	Flash Point: 56°C
Decompose 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)
Log Kow:	Evaporation Rate: -

Section 10: Stability and Reactivity

Chemical Stability: Stable

Possible Danger Reacts Under the Special State: No evidence of hazardous response is shown.

Conditions to Avoid: Air, oxygen, heat, spark, flames, ignition sources, and oxidation.



Incompatible with Other Materials: 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.

Signs/Symptoms:

Acute Toxicity:

Skin Contact: No severe symptoms show health effects. It may cause skin irritation.

Inhalation: It may irritate respiratory tract and mucous membrane.

Ingestion: No adequate symptoms show harmful effects after ingesting.

Eyes Contact: It may cause moderate irritation, including burning, weeping, red and swollen.

LD50: >12000 (rat, oral, skin)

LC50: 6072 PPM (rat)

Chronic Toxicity or Long Term Effects on Humans: Repetitive or long exposure will cause nose irritation.

Section 12: Ecological Information

Eco toxicity:

LC50 (fish):

EC50 (aquatic invertebrate):

BCF: -

The 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): **-hour.**

Half-life (Water surface): - hour.

Half-life (Groundwater): -

Half-life (Soil): -

Bio-accumulative Potential: -

Mobility in Soil: -

Other Adverse Effects: -

Section 13: Disposal Considerations

Methods of waste Disposal: Spilled liquid and vapor may ignite a fire. Staffs should wear appropriate personal protective equipments to enter spilled areas to remove all sources of ignition. Block entrances to avoid leaks flushing to sewers or public water systems. Report to fire fighting or hygiene units. Walks paths are slippery so it is appropriate to cover or absorb with fine sand or block large spills to handle and restore. 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. (contains Propylene Glycol Methyl Ether Propionate)

Transport Hazard classes: 3

Packaging Group: III

Ocean Pollutant(Yes/No): No

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

Section 15: Regulatory Information

Applicable regulation:

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

Section 16: Additional Information

References	<ol style="list-style-type: none"> 1. CHEMINFO database, CCINFO CD-RAW, 98-2 2. HAZARDTEXT database, TOMES PLUS CD-RAW, Vol.41, 1999 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
SDS Author	Shiny Chemical Industrial Co., Ltd .
Address/Telephone	No.5, Yeong Gong 1st Rd., Yeong An Dist., Kaohsiung City 82841, Taiwan, R.O.C. +886-7-861-9171ext 711~714 Shiny Chemical Industrial Co., Ltd .
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Notes	"-" indicates data is not available at present. "/" indicates such column is not applicable.