

SAFETY DATA SHEETS

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

Version: 1.0

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SECTION 1. Identification of the substance

Product identifiers

Product name: Propylene glycol methyl ether

CAS-No.: 107-98-2

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet

Company: CHEMLYTE SOLUTIONS CO., LTD

Address: A1-3-830, XiXi Center, No. 588, Wenyi West Road, Hangzhou 310000,
Zhejiang, China

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Emergency telephone number

Emergency Phone # : +1-703-527-3887

SECTION 2: Hazards Identification

Hazard class and label elements of the product according to GHS (the tenth revised edition):

GHS Hazard Class

Flammable Liquids Specific Target Organ Category 3

Toxicity, Single Exposure; Narcotic Effects Category 3

GHS Label Elements

Pictogram:



Signal Word: Warning

Hazard Statements

H226

Flammable liquid and vapour

H336

May cause drowsiness or dizziness

Precautionary Statements

Prevention

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof [electrical/ventilating/lighting] equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P271: Use only outdoors or with adequate ventilation.

P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

P319: Get medical help if you feel unwell.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P370+P378: In case of fire: Use suitable extinguishing medium to extinguish.

P303+P361+P353 Storage: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].

P405: Store locked up.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P403+P235: Store in a well-ventilated place. Keep cool.

Disposal

P501: Dispose of contents/container in accordance with local/regional/national/international regulations

Section 3 Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.
Propylene glycol methyl ether	99.5	107-98-2	203-539-1
Water	0.5	7732-18-5	231-791-2

Section 4 First Aid Measures

Description of First Aid Measures

General Advice: Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feeling uncomfortable.

Skin Contact: Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feeling uncomfortable.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

Inhalation: Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if the victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

Protecting of First-aiders: Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent the spread of contamination.

Most Important Symptoms and Effects, both Acute and Delayed

Substance accumulation in the human body may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically.

Symptoms may be delayed.

Section 5 Fire Fighting Measures

Extinguishing Media

Suitable Extinguishing Media: Dry chemical, carbon dioxide, or alcohol-resistant foam.

Unsuitable Extinguishing Media: Do not use a solid water stream as it may scatter or spread fire.

Specific Hazards Arising from the Substance or Mixture

1. Will form explosive mixtures with air.
2. Fire-exposed containers may vent contents through pressure relief valves, increasing fire intensity and/or vapor concentration.
3. Vapors may travel to the source of ignition and flash back.
4. Liquid and vapor are flammable.
5. Containers may explode when heated.
6. Fire-exposed containers may vent contents through pressure relief valves.
7. May expand or decompose explosively when heated or involved in fire.

Advice for Firefighters

1. As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2. Fight fire from a safe distance, with adequate cover.
3. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 Accidental Release Measure

1. Avoid breathing vapors and contacting with skin and eye.
2. Beware of vapours accumulating to form explosive concentrations.
3. Vapours can accumulate in low areas.
4. Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
5. Ensure adequate ventilation. Remove all sources of ignition.
6. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
7. Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

Environmental Precautions

Prevent further leakage or spillage if safe to do so.

Discharge into the environment must be avoided.

Methods and Materials for Containment and Cleaning Up

1. Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.

2. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

3. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Section 7 Handling and Storage

Avoid inhalation of vapors.

Use only non-sparking tools.

Ground all metal parts to prevent fire caused by electrostatic discharge.

Use explosion-proof equipment.

Handle in a well-ventilated place.

Wear suitable protective equipment.

Avoid contact with skin and eyes.

Keep away from heat, sparks, open flames, and hot surfaces.

Take precautionary measures against static discharges.

Precautions for Storage

Keep containers tightly closed.

Store in a dry, cool, and well-ventilated place.

Keep away from heat, sparks, open flames, and hot surfaces.

Store away from incompatible materials and foodstuff containers.

Section 8 Exposure Controls/Personal Protection

Control Parameters

Occupational Exposure Limit Values

Component	Country/Region	Limit Value-Eight Hours		Limit Value -Short Term	
		ppm	mg/m ³	ppm	mg/m ³
Propylene glycol monomethyl ether (PM\PGME); 1-METHOXY-2-PR OPANOL (MP) 107-98-2	USA-NIOSH	100	360	150	540
	South Korea	100	360	150	540
	Ireland	100	375	150	568
	Germany (AGS)	100	370	200	740
	Denmark	50	185	100	370
Australia	100	369	150	553	

Biological Limit Values

No information available

Monitoring Methods

1. EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

2. GBZ/T 160 Determination of toxic substances in workplace air (Series effective standard) and GBZ/T 300 Determination of toxic substances in workplace air (Series standard).

Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Ensure that eyewash stations and safety showers are close to the workstation location.

Use explosion-proof electrical/ventilating/lighting/equipment.

Set up emergency exit and necessary risk-elimination area.

Personal Protection Equipment

Eye Protection

Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).

Hand Protection

Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.

Respiratory protection

If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

Skin and Body Protection

Wear fire/flame resistant/retardant clothing and antistatic boots.

Section 9 Physical and Chemical Properties

Appearance: Colorless transparent liquid

Odor Threshold: No information available

Boiling Point(°C): 117.0-125.0 °C

Vapor Pressure(KPa): No information available

Relative Density(Water=1): No information available

Odor: No information available

pH: No information available

Evaporation Rate: No information available

Auto-Ignition Temperature(°C): No information available

Section 10 Stability and Reactivity

Reactivity: Contact with incompatible substances can cause decomposition or other chemical reactions.

Chemical Stability: Stable under proper operation and storage conditions.

Possibility of Hazardous Reactions: In contact with active metals(alkali metals,Na,Ca etc.)causes a reaction and release hydrogen.

Conditions to Avoid: Incompatible materials,heat,flame and spark.

Incompatible Materials: Alkali,sodium,calcium,and other active metal,halogen,metal oxide,nonmetal oxide,acyl halide and metal phosphide.

Hazardous Decomposition products: Under normal conditions of storage and use,hazardous decomposition products should not be produced.

Section 11 Toxicological Information

Component	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation, 4h)
Propylene Glycol monomethyl ether(PM\PGME); 1-METHOXY -2-PROPANOL(MP)	107-98-2	11700mg/kg (Mouse)	13000mg/kg (Rabbit)	No information available

Skin Corrosion/Irritation

No information available

Serious Eye Damage/Irritation

No information available

Skin Sensitization

No information available

Respiratory Sensitization

No information available

Germ Cell Mutagenicity

No information available

Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	107-98-2	Propylene glycol Monomethyl ether(PM\PGME);1-METHOXY-2-PROPANOL(MP)	Not Listed	Not Listed
2	7732-18-5	Water	Not Listed	Not Listed

Reproductive Toxicity

No information available

Reproductive Toxicity (Additional)

No information available

STOT-Single Exposure

May cause drowsiness or dizziness(Category 3)

STOT-Repeated Exposure

No information available

Aspiration Hazard

No information available

Section 12 Ecological Information

Acute Aquatic Toxicity

No information available

Chronic Aquatic Toxicity

No information available

Others

Persistence and Degradability: No information available

Bioaccumulative Potential: No information available

Mobility in Soil: No information available; Propylene glycol monomethyl

Results of PBT and vPvB Assessment: ether(PM\PGME);1-METHOXY-2-PROPANOL(MP) does not meet the criteria for PBT and vPvB according to Regulation (EC)No 1907/2006,annex XIII.

Water does not meet the criteria for PBT and vPvB according to Regulation(EC) No 1907/2006, annex XIII.

Section 13 Disposal Considerations

Waste Chemicals

Before disposal should refer to the relevant national and local laws and regulation.

Contaminated Packaging

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

Disposal Recommendations

Refer to Waste chemicals and Contaminated packaging.

Section 14 Transport Information

Transporting Label



Marine pollutant: None

UN Number: 3092

UN Proper Shipping Name: 1-METHOXY-2-PROPANOL

Transport Hazard Class: 3

Transport Subsidiary Hazard Class: NONE

Packing Group: III

Section 15 Regulatory Information

International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Propylene glycol monomethyl ether(PM\PGME);1-METHOXY-2-PROPANOL(MP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Water	✓	✓	✓	✓	✓	✓	✓	✓	✓

[EINECS] European Inventory of Existing Commercial Chemical Substances.

[TSCA] United States Toxic Substances Control Act Inventory.

[DSL] Canadian Domestic Substances List.

[IECSC] China Inventory of Existing Chemical Substances

[NZIoC] New Zealand Inventory of Chemicals.

[PICCS] Philippines Inventory of Chemicals and Chemical Substances.

[KECI] Existing and Evaluated Chemical Substances.

[AICS] Australia Inventory of Chemical Substances.

[ENCS] Existing And New Chemical Substances.

Note

" ✓ " Indicates that the substance included in the regulations

" × " That no data or included in the regulations

SECTION 16 Other information

Further information

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