

Glycol Ether PM SOLVENT

Gen. Variant: SDS_TW

Version 1.6

Revision Date 2017-04-10

Print Date 2017-05-04

SDS No.: BE648

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade name : Glycol Ether PM SOLVENT
CAS Number: : 107-98-2
Chemical characterization : Propylene Glycol Ethers
Chemical name : 1-Methoxy-2-propanol
Synonyms : Propylene glycol monomethyl ether, PGME

Identified uses : Solvent

The manufacturer, importer or supplier's name, address and telephone number

Company Address

LyondellBasell Taiwan Co., Ltd.
7F-6, #101, Fu Hsiung North Road, Taipei,
Taiwan

Company Telephone

(Tel) 02-7707-9000
(Fax) 02-8770-1122
product.safety@lyb.com

Emergency telephone number

(886) 933 635 556 Taiwan

E-mail address : product.safety@lyb.com

Responsible/issuing person

2. HAZARDS IDENTIFICATION**GHS-Classification**

Flammable liquids	Category 3
Aspiration hazard	Category 2
Acute toxicity; Oral	Category 5
Specific target organ systemic toxicity - single exposure	Category 3

GHS-Labeling

Symbol(s) :



Signal word : Warning

Hazard Statements	: H226 H303 H336 H305	Flammable liquid and vapour. May be harmful if swallowed. May cause drowsiness or dizziness. May be harmful if swallowed and enters airways.
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Precautionary Statements

: **Prevention:**

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
- P331 Do NOT induce vomiting.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor if you feel unwell.

Storage:

- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

Disposal:

- P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

No additional information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Substances****Ingredients**

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Chemical name	CAS-No. EC-No.	Weight %	Component Type
1-Methoxy-2-propanol	107-98-2	99.5 - 100.0 %	A
2-Methoxy-1-propanol	1589-47-5	<0.3 %	C

Key:

(A) Substance

(C) Impurity

4. FIRST AID MEASURES

- General advice : Inhalation of high vapor concentrations can cause CNS-depression and narcosis.
Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid.
Consult a physician/doctor if necessary.
Show this material safety data sheet to the doctor in attendance.
- If inhaled : If symptoms are experienced, move victim to fresh air.
Give oxygen or artificial respiration as needed.
Get immediate medical advice/ attention.
- In case of skin contact : Thoroughly wash effected area with mild soap and water. If irritation persist, seek medical attention.
- In case of eye contact : Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.
- If swallowed : This material may be a slight health hazard if ingested in large quantities.
If large quantity swallowed, give lukewarm water (pint/ 1/2 liter) if victim completely conscious/alert.
Do not induce vomiting. Risk of damage to lungs exceeds poisoning risk.
Obtain emergency medical attention.

Notes to physician

- Symptoms : Inhalation may cause CNS symptoms like headache, dizziness,

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fatigue, muscular, weakness, drowsiness and lack of coordination.

Hazards

: May be harmful if swallowed and enters airways.
May be harmful if swallowed.
May cause drowsiness or dizziness.

Treatment

: Treat symptomatically.
Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

: Dry chemical
Carbon dioxide (CO₂)
Water spray
Alcohol-resistant foam

Unsuitable extinguishing media

: Do not use solid water stream.

Specific hazards during fire fighting

: Water may be ineffective in firefighting due to low flash point.
Burning liquid may float on water.
Even if material is water soluble, may not be practical to extinguish fire by water dilution.
Notify authorities immediately if liquid enters sewer/public waters.
Flammable vapors may be heavier than air and travel long distances along the ground before igniting and flashing back to vapor source.
Heat may build enough pressure to rupture closed containers/spreading fire/increasing risk of burns/injuries.
Move containers from fire area if it can be done without risk.
Cool containers with flooding quantities of water until well after fire is out.
Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
Always stay away from tanks engulfed in fire.
For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters

: Wear an approved positive pressure self-contained breathing apparatus and firefighter turnout gear.
Structural firefighter's protective clothing will only provide limited protection.

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Eliminate all sources of ignition.
Evacuate personnel to safe areas.
- Environmental precautions : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.
If necessary, all contaminated waste water must be treated in a municipal or industrial wastewater treatment plant before release to surface water.
- Chemical removal by air and water pollution control devices must meet the minimum efficiency requirements needed to reduce exposures to an acceptable level.
The discharge of treatment plant effluent to rivers and oceans must achieve the dilution ratio needed to reduce exposures to an acceptable level.
The size and capacity of wastewater treatment plants must meet the minimum requirements needed to reduce exposures to an acceptable level.
Waste management practices such as incineration, recycling, reuse must be enforced as needed to reduce exposures to an acceptable level.
- External treatment and disposal of waste should comply with applicable local and/or national regulations.
The maximum allowable site tonnage and the days of use should be below the number needed to maintain exposures at an acceptable level.
- Methods for containment /
Methods for cleaning up : Flammable liquid and vapour.
Release can cause fire or explosion.
Liquids/vapors may ignite.
Eliminate all sources of ignition.
Evacuate/limit access.
Ensure adequate ventilation.
Stop leak if you can do it without risk.
All equipment used when handling this product must be grounded.
Do not touch or walk through spilled material.
Water spray may reduce vapor; but may not prevent ignition in closed spaces.
Blanket with firefighting foam.
Contain spill with dike to prevent entry into sewers or

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waterways.

For large spills, dike and pump into properly labeled containers for reclamation or disposal. For small spills, soak up with absorbent material and place in properly labeled containers for disposal.

All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible.

7. Handling and storage**Precautions for safe handling**

Advice on safe handling : Carefully vent any internal pressure before removing closure. Keep container tightly closed when not in use. The potential for peroxide formation is enhanced when this solvent is used in processes such as distillation. Use only non-sparking tools. Properly ground containers before beginning transfer. When transferring propylene glycol ethers with flash points at or below 60 °C (140 °F) into fixed site vessels, the vessel should be purged and inerted prior to transfer. Propylene glycol ethers may be transferred into air atmospheres if the temperature of the product and the ambient temperature within the shipping container are both at least 16.7 °C (30 °F) less than the product's flash point. After loading, nitrogen blanketing is required if the contents of the transportation container could exceed a temperature of 16.7 °C (30 °F) less than the product flash point during any subsequent transportation activities. If the product flash point is less than 16.7 °C (30 °F) above either the ambient temperature of the transportation container or the storage temperature of the product, the container should be purged and inerted with nitrogen prior to loading and nitrogen blanketed after loading. Eliminate every possible source of ignition. All electrical equipment should be grounded and conform to applicable electric codes and regulatory requirements. Check atmosphere for explosiveness and oxygen deficiencies. When transferring, the vessel should be purged and inerted prior to transfer.

Handle empty containers with care.

Flammable/combustible residue remains after emptying.

The purging of all empty shipping containers, regardless of the flashpoint, is recommended when received with air atmospheres.

Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair.

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Use adequate personal protective equipment.
Observe precautions pertaining to confined space entry.

Fire-fighting class : Flammable liquid.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store only in tightly closed, properly vented containers away from heat, sparks, open flame and strong oxidizing agents. Storage under nitrogen atmosphere is recommended to minimize potential for moisture condensation in the vapor space, and the formation of peroxides. Store in properly lined steel/stainless steel to avoid slight discoloration from mild steel/copper. Aluminum (5000 series alloys - U.S. Aluminum Association Standard) showed no corrosion after 30 days contact with PM Acetate, DPM, TPM, PTB, or PM at 71°C (160°F). Some plastics/rubbers are attacked by Glycol Ethers/Ether Esters. This product will absorb water if exposed to air.

Advice on common storage : Carbon steel
Store in properly lined steel/stainless steel to avoid slight discoloration from mild steel/copper.

Specific end use(s)
: See Section 1.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Ingredients with workplace control parameters****Occupational Exposure Limits**

Ingredients	CAS-No.	Type	Limit Value	Basis Revision Date	Additional Information
1-Methoxy-2-propanol	107-98-2	STEL	100 ppm	US (ACGIH) 2013	
1-Methoxy-2-propanol	107-98-2	TWA	50 ppm	US (ACGIH) 2013	

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1-Methoxy-2-propanol	107-98-2	TWA	100 ppm 369 mg/m ³	OEL (TW) January 26, 2010	
1-Methoxy-2-propanol	107-98-2	STEL	125 ppm 461.25 mg/m ³	OEL (TW) January 26, 2010	

Consult local authorities for acceptable exposure limits.

Exposure controls**Engineering measures**

General room or local exhaust ventilation is usually required to meet exposure limit(s).

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
If exposure can potentially exceed the exposure limit(s), respiratory protection recommended or approved by appropriate local, state or international agency must be used.

Hand protection : Wear chemical resistant gloves such as:
Glove material butyl rubber; material thickness .5mm; break through time ≥ 480 min. Gloves must be replaced after 8 hours of wear.

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye and face protection : Chemical splash goggles and/or face shield should be worn.

Skin and body protection : Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn.
Use PPE that is chemical resistant to the product and prevents skin contact.

Hygiene measures : Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use.
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Use good personal hygiene practices.
Wash hands before eating, drinking, smoking, or using toilet facilities.
Take off contaminated clothing and wash before reuse.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: Clear, colorless.
Odor	: Ether-like odor.
Odor Threshold	: 10 ppm Odor is not an adequate warning of potentially hazardous ambient air concentrations.
Flash point	: 31 °C at 1,013 hPa (760 mm Hg) Method: (SETA)
Lower explosion limit	: 1.48 vol%
Upper explosion limit	: 13.74 vol%
Oxidizing properties	: Not considered an oxidizing agent.
Autoignition temperature	: 287 °C at 1,013 hPa
Molecular weight	: 90.12 g/mol
Decomposition temperature	: not determined
pH	: 7 aqueous phase
Melting point/freezing point	: -96 °C at 1,013 hPa
Boiling point/boiling range	: 120.17 °C at 1,013 hPa
Vapor pressure	: 15.6 hPa at 25 °C
Relative density	: > 3
Density	: 0.92 g/cm ³ at 25 °C
Water solubility	: ~ 200 g/l 20 °C Miscible in water.

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Partition coefficient: n-octanol/water	: log Pow: < 1.0 at 20 °C
Viscosity, dynamic	: 1.7 mPa.s at 25 °C
Viscosity, kinematic	: 1.84 mm ² /s at 25 °C
Relative vapor density	: > 3.0 at 15.5 - 32.2 °C
Surface tension	: 70.7 mN/m 1.0 g/l at 20 °C
Explosive properties	: Not explosive
Other Information	: Volatile Characteristics; Moderate: 1.0 to 10.0%

10. STABILITY AND REACTIVITY

Reactivity	: Will not occur.
Chemical stability	: Stable
Hazardous reactions	: Not expected to occur.
Conditions to avoid	: Extended contact with air or oxygen. Reacts with air to form peroxides. Heat, sparks, open flame, other ignition sources, and oxidizing conditions. Ignition may occur at temperatures below those published in the literature as autoignition or ignition temperatures.
Materials to avoid	: Strong oxidizing agents. Air or Oxygen Moisture and humidity.
Hazardous decomposition products	: Not expected to decompose under normal conditions.
Thermal decomposition	: Incomplete combustion may produce carbon monoxide and other toxic gases.

11. TOXICOLOGICAL INFORMATION

Product Summary	: The below given information is based on the assessment of the product including impurities.
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Acute toxicity**Acute oral toxicity**

: Classified
May be harmful if swallowed.
High doses may cause CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure).

: LD50: 4,016 mg/kg
Species: Rat

Acute inhalation toxicity

: Based on acute toxicity values, not classified.

: Exposure to vapor may cause irritation of the eyes, nose, or throat.
Exposure to very high concentrations of aerosols may cause CNS depression.

: LC50: 25.8 mg/l
Exposure time: 6 HOURS
Species: Rat

Acute dermal toxicity

: Based on acute toxicity values, not classified.

: LD50: > 2,000 mg/kg
Species: Rabbit

Skin corrosion/irritation

: Based on skin irritation values, not classified.
May cause mild skin irritation

Serious eye damage/eye irritation

: Based on eye irritation values, not classified.
May cause slight transient eye irritation.

Respiratory or skin sensitization

: Respiratory sensitization
Not classified
No study available.

: Skin sensitization
Not classified
No adverse effect observed.

Chronic toxicity**Carcinogenicity**

: Not classified
No adverse effect observed.

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Germ cell mutagenicity : Not classified
No adverse effect observed.

Reproductive toxicity

Effects on fertility / : Not classified
Effects on or via lactation : No adverse effect observed.

Effects on Development : Not classified
The beta isomer of PGME, 2-Methoxy-1-Propanol, has been shown to produce developmental toxicity in animals. Developmental toxicity studies on PGME product, containing high levels of the beta-isomer impurity, were negative. Therefore the product is not classified for developmental toxicity.

Target Organ Systemic Toxicant - Single exposure : Classified, May cause drowsiness or dizziness.

: Exposure routes: Inhalation, Ingestion
Target Organs: Central nervous system

: High doses may cause CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure).

Target Organ Systemic Toxicant - Repeated exposure : Based on repeated exposure toxicity values, not classified.

Aspiration hazard : Classified
May be harmful if swallowed and enters airways.

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish :
Low acute toxicity to fish

Toxicity to daphnia and other aquatic invertebrates :
Low acute toxicity to aquatic invertebrates.

Toxicity to algae :

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Low toxicity to algae.

Toxicity to bacteria :
Low toxicity to sewage microbes.

Toxicity to fish (Chronic toxicity) :
no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) :
no data available

Elimination information (persistence and degradability)

Bioaccumulation : Bioconcentration factor (BCF): 3.16
This material is not expected to bioaccumulate.

Surface tension : 70.7 mN/m
1.0g/l
at 20 °C

Distribution among environmental compartments : Stability in water
no data available
: Stability in soil
no data available
Low absorption to soil particulates predicted

Additional advice : No additional information available.
Environmental fate and pathways

Biodegradability : 96 %
Rapidly degradable.
(After 28 days in a ready biodegradability test)

Further information on ecology**Ecotoxicology Assessment**

Acute aquatic toxicity : Based on acute aquatic toxicity values, not classified.

Chronic aquatic toxicity : Not classified, based on readily biodegradability and low acute toxicity.

Results of PBT assessment

Not applicable.

Additional ecological information : No additional information available.

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13. Disposal considerations**Waste treatment methods**

Product : Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes.
Comply with applicable local, state or international regulations concerning solid or hazardous waste disposal and/or container disposal.
Dispose of as hazardous waste in compliance with local and national regulations.

14. TRANSPORT INFORMATION**TAIWAN_ROAD**

UN number : 3092
Description of the goods : 1-METHOXY-2-PROPANOL
Class : 3
Packing group : III
Labels : 3

IMDG

UN number : 3092
Description of the goods : 1-METHOXY-2-PROPANOL
Class : 3
Packing group : III
Labels : 3
EmS Number 1 : F-E
EmS Number 2 : S-D
Marine pollutant : no

BLG (MARPOL Annex II)

Description of the goods : PROPYLENE GLYCOL MONOALKYL ETHER (CONTAINS PROPYLENE GLYCOL MONOMETHYL ETHER),
Pollution category : Z
Ship type : 3

15. REGULATORY INFORMATION**Toxic Chemical Substances Control Act**

Not relevant

Taiwan - Labor Safety & Health Law

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Taiwan - Traffic Regulation**Other international regulations****Global Inventory Status**

The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

*Additional Explanatory Status Statements follow the table, as necessary.

Country/Region	Inventory	Status Description
Australia	AICS	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	Compliant

REACH status

If the product has been purchased from any company of the LyondellBasell group of companies registered in the European Union, we confirm that the chemical substance in this product has been pre-registered or, where required under REACH, registered, and that we have the intention to proceed with any required registration in accordance with the deadlines set forth in REACH. (Regulation (EU) No. 1907/2006)

Contact product.safety@lyb.com for additional global inventory information.

16. OTHER INFORMATION**Material safety datasheet sections which have been updated:**

Revised Section(s): 1 Revision Date April 10 2017

SDS Preparation Date: 2017-04-10

SDS Prepared by: LyondellBasell Taiwan Co., Ltd., HSE Department, 7F-6, #101, Fu Hsiung North Road, Taipei, Taiwan, (Tel) 02-7707-9000, (Fax) 02-8770-1122,

SDS Prepared by: Kevin Kung, Manager Quality Management and Product Stewardship

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Disclaimer

This document is generated for the purpose of distributing health, safety, and environmental data.

Information is correct to the best of our knowledge at the date of the SDS publication.

It is not a specification sheet nor should any displayed data be construed as a specification.

Before using a product sold by a company of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally.

SELLER MAKES NO WARRANTY; EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN A CONTRACT.

Users should review the applicable Safety Data Sheet before handling the product.

This product(s) may not be used in the manufacture of any of the following, without prior written approval by Seller for each specific product and application:

- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.

The product(s) may not be used in:

- (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;
- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

In addition to the above, LyondellBasell may further prohibit or restrict the use of its products in certain applications. For further information, please contact a LyondellBasell representative.

Alkylate, Duopac, Duoprime, Filmex, MPDIOL, Polymeg, SAA-100, SAA-101, TBAC, Tebol, T-Hydro, and Tufflo are trademarks owned or used by the LyondellBasell family of companies.

Numerical Data Presentation

The presentation of numerical data, such as that used for physical and chemical properties and toxicological values, is expressed using a comma (,) to separate digits into groups of three and a period (.) as the decimal marker. For example, 1,234.56 mg/kg = 1 234,56 mg/kg.

Language Translations

The information presented in this document has been translated from English by a vendor LyondellBasell believes to be reliable. LyondellBasell and its vendor have made a good-faith effort to verify the accuracy of the translation, but assume no liability or other responsibility for any errors that may have occurred. Please refer to our web site (www.lyondellbasell.com) for the original document written in English.

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End of Material Safety Data Sheet