

Safety Data Sheet

According to GB/T 16483-2008 and GB/T 17519-2013

Propylene glycol monoethyl ether acetate

Version 1.0

Issue date: 14/11/2018

Revision date: 14/11/2018

SDS Record Number: CSSS-TCO-010-129527

Section 1 Chemical Product and Company Identification

Chemical name: Propylene glycol monoethyl ether acetate

Additional identification: PEA

Product code: Not available

Identification of the product: CAS#54839-24-6 EC#259-370-9

Relevant identified uses of the substance and uses advised against

Identified uses: Organic solvents.

Uses advised against: Not available

Details of the supplier of the safety data sheet

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Section 2 Hazards Identification

Emergency Overview: Colorless liquid. Vapors can form explosive mixtures with air at ambient temperature. Vapors are heavier than air and can travel long distances along ground before igniting and flashing back to vapor source. Hazardous combustion products may include carbon monoxide. May cause drowsiness or dizziness.

GHS Classification:

Physical hazards Flammable liquids Category 3

Health hazards Specific target organ toxicity (single exposure) Category 3

Environmental hazards Not classified

Label elements

Pictogram:



Signal Word(s): Warning

Hazard Statement: Flammable liquid and vapour
May cause drowsiness or dizziness

Precautionary statement

Prevention: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/Bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/eye protection/face protection

Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

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Call a POISON CENTER/doctor if you feel unwell.

In case of fire: Use alcohol-resistant foam, dry chemical powder, carbon dioxide, water mist to extinguish.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Store locked up.

Disposal:

Dispose of contents/container in accordance with local regulation.

Physical and chemical hazards:

Vapors can form explosive mixtures with air at ambient temperature. Vapors are heavier than air and can travel long distances along ground before igniting and flashing back to vapor source. Hazardous combustion products may include carbon monoxide.

Health hazards:

May cause drowsiness or dizziness.

Environmental hazard:

Based on all known information, this product does not affect the environment.

Other hazards:

This product has not been found to have other hazards which are outside the scope of GB30000.2-29.

Section 3 Composition Information on Ingredients

Substance/Mixture/Article:

Substance

Ingredient(s):

Chemical Name	CAS No.	Concentration or concentration range (w/w %)
Propylene glycol monoethyl ether acetate	54839-24-6	≥99%

Section 4 First Aid Measures

In case of inhalation:

Remove to fresh air. Keep warm and at rest. Get medical attention if patient feels unwell.

In case of skin contact:

Remove contaminated clothing. Immediately wash skin with soap and water. Get medical attention if skin cracking or redness occurs.

In case of eyes contact:

Immediately flush eye with large quantities of water for at least 15 minutes holding the eye open. Avoid contaminating unaffected eye.

In case of ingestion:

Wash out mouth with water. Do not induce vomiting. Keep patient warm and at rest. Give 240-300 ml water to drink (only if patient is conscious). Repeat if patient vomits. Get medical attention if patient is unwell. Get medical attention if a large quantity is ingested.

Most important symptoms and effects, both acute and delayed:

May cause drowsiness or dizziness.

To protect playing rescuer advice and the special hints to the doctor:

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

Section 5 Fire-fighting Measures

Extinguishing agent

Suitable extinguishing media:

Alcohol-resistant foam, dry chemical powder, carbon dioxide, water mist.

Unsuitable extinguishing media:

Water in a jet.

Special hazards arising from the chemical:

Vapors can form explosive mixtures with air at ambient temperature. Vapors are

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heavier than air and can travel long distances along ground before igniting and flashing back to vapor source. Hazardous combustion products may include carbon monoxide.

Special fire fighting methods and special protective actions for fire-fighters:

Firefighters should wear self-contained breathing apparatus, and wear full-length firefighting gear, and cool the exposed container with water until all fire sources have been extinguished. Contain and dispose of fire-fighting water to prevent chemicals from entering the environment.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Evacuate all non-essential personnel. Avoid eye and skin contact, and inhalation of vapor. Wear appropriate protective clothing. Wear respiratory protection. Ventilate area. Do not smoke. Keep away sources of ignition. Be aware of possible accumulation of vapor.

Environmental precautions:

Keep away from drains, water and soil. Advise authorities if spilled material has entered water courses or sewer or has contaminated soil or vegetation.

Methods and materials for containment and cleaning up:

Absorb or contain liquid with sand, earth or spill control material. Collect and place in a labelled sealable container for subsequent safe disposal. Flush contaminated area with plenty of water. Put leaking containers in a labelled drum or overdrum.

Precautions to prevent the occurrence of secondary hazards:

Dispose of the collected spill immediately to avoid further leaks or sewers.

Section 7 Handling and Storage

Safe handling

Local and general ventilation:

Operations should be carried out in a place with partial ventilation or full ventilation.

Safety instructions:

Operators should follow the procedure and use the personal protective equipment recommended by the SDS section 8.

Precautions:

Avoid contact with skin. Do not breathe vapor. Extinguish any naked flames. Remove ignition sources. Do not smoke. Avoid sparks. Earth all equipment. Only use in well ventilated areas. Keep container tightly closed when not in use. Provide emergency eye washing and shower facilities.

Storage

Suitable storage conditions:

Storage area should be cool and dry. Keep away from direct sunlight and other sources of heat or ignition. Keep in a well-ventilated place. Store in a bunded area. Use electrically safe equipment. Earth all storage vessels.

Incompatible materials:

Oxidising agents.

Safe packaging materials:

Keep it in the original container.

Section 8 Exposure Controls / Personal Protection

Occupational exposure limits:

According to GBZ2.1, the OELs of components are not established.

Biological limits:

No standard has been established.

Engineering controls:

Ensure adequate ventilation. The workplace shall have safe place to shower, clean eyes and body, and place for safe care.

Personal protection equipment

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Respiratory protection:	Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.
Hand protection:	Gloves made from butyl rubber (breakthrough times >480 minutes), Neoprene™ rubber, nitrile rubber (breakthrough times up to 480 minutes).
Eye protection:	Protective goggles with side-shields.
Skin and body protection:	Neoprene™ apron. Rubber boots.
Hygiene measures:	Avoid contact with eyes. Wash hands after handling. Do not eat and drink in the workplace.

Section 9 Physical and Chemical Properties

Appearance:	Colorless liquid
Odor:	No data available
Odor threshold:	No data available
Molecular formula:	C ₇ H ₁₄ O ₃
Molecular weight:	146.18
Melting point/freezing point (°C):	< -70 °C
Boiling point, initial boiling point (°C):	150 °C
Density:	No data available
Relative density(H₂O=1):	0.98 (20 °C)
Vapor pressure (25°C) (kPa):	202.6 Pa
Partition coefficient (n-octanol/water):	log Pow: 0.76 (22 °C)
Solubility in water:	69.6 g/L (18 °C)
Solubility in organic solvents:	No data available
Flash point (°C):	53 °C
Auto-ignition temperature (°C):	325 °C
Flammability limit - lower (%):	No data available
Flammability limit - upper (%):	No data available
Decomposition temperature (°C):	No data available
Flammability (solid, gas):	No data available
Explosive properties	Non explosive
Explosive limit - lower (%):	No data available
Explosive limit - upper (%):	No data available
pH value:	No data available
Viscosity:	0.982 mm ² /s (40 °C)
Relative vapor density (air=1):	No data available
Relative evaporation rate (n-butyl acetate=1):	No data available

Section 10 Stability and Reactivity

Stability:	Material is stable under normal conditions. May form peroxides on prolonged exposure to air and light.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	Incompatible materials. High temperatures and sources of ignition. Prolonged exposure to air/oxygen and light.
Incompatible materials:	Oxidizing agents.
Hazardous decomposition products:	Oxides of carbon.

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Section 11 Toxicological Information

Acute toxicity:

LD50(Oral, Rat): No data available

LD50(Dermal, Rabbit): 13.42 mL/kg bw

LC50(Inhalation, Rat, 4h): > 6.99 mg/L

Skin corrosion/Irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: May cause drowsiness or dizziness.

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

Section 12 Ecological Information

Ecotoxicity

LC50 (Fish, 96h) 140 mg/L

EC50 (Daphnia, 48h) 110 mg/L

EC50 (Algae, 72h): > 100 mg/L

Persistence and degradability: Readily biodegradable.

Bioaccumulative potential: Not available.

Mobility in soil: log Koc: 1

Section 13 Disposal Considerations

Residual waste Recycling as much as possible. If recycling is not possible, use incineration methods for disposal. Do not dispose of this product by means of discharge to the sewer.

Contaminated packaging Empty containers or pads may retain some product residue, so beware of label warnings even when empty containers. These materials and their containers must be disposed of in a safe manner. Empty containers should be returned to the manufacturer or sent to a national / local approved waste disposal site.

Disposal considerations: Waste disposal should refer to the relevant national and local laws and regulations, the waste chemicals for recycling, or packed in sealed containers, to a special waste disposal sites.

Section 14 Transport Information

UN Number: 3272

UN Proper shipping name: ESTERS, N.O.S. (Propylene glycol monoethyl ether acetate)

Transport hazard Class: 3

Packaging group: III

Marine pollutant (yes/no): No

Transport special precautions:

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—Grounding chains should be equipped with tank or car during transportation, hole plate can be set in the tank to prevent static electricity generated by shaking;

—Exhaust pipe of the vehicle which transports this product shall be equipped with fireproofing equipment, Do not handle with the machinery or tools which may produce spark easily;

—Do not package or transport with oxidant, food chemicals or others;

—Prevent from sunlight exposure, rain and heat during transportation, in summer, best to transport in the morning or evening;

—Keep away from fire, heat source and high temperature when stops on the way;

—Follow the route as prescribed during highway transportation, do not stay in residential areas and densely populated area;

—Prohibit humping in railway transportation;

—Transport vehicles should be equipped with corresponding fire equipment and spill contingency processing equipment.

Section 15 Regulatory Information

The following laws, regulations, rules and standards, provide corresponding provisions of the management of chemicals:

Name	Relevant Inventories	Listed Or Not
Measures On Safety Management Of Hazardous Chemicals	Inventory Of Hazardous Chemicals	Listed
	The First Batch Of Key Regulatory List Of Hazardous Chemicals	Not listed
Measures On New Substance Environmental Management	The Inventory Of Existing Chemical Substance In China	Listed
Provisions On Environmental Management Of First Import And Export Of Toxic Chemicals	China Strictly Restricted List Of Import And Export Of Toxic Chemicals	Not listed

Section 16 Other Information

Indication of changes:

Version 1.0 Amended by GB/T16483 and GB/T 17519.

Abbreviations:

CAS: Chemical Abstracts Service

LC50: Lethal Concentration 50

EC50: Concentration for 50% of maximal effect

LD50: Lethal dose 50%

PC-TWA: time-weighted average allowable concentration, average allowable concentration in 8h working day, 40h work week.

PC-STEL: Short-Term Exposure Tolerance, the concentration allowed to be exposed in short-term (15 minutes).

IARC: International Agency for Research on Cancer

ACGIH: US Government Conference of Industrial Hygienists

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Dangerous Goods

EINECS: European Inventory of Existing commercial Chemical Substances

IATA: International Air Transport Association

ICAO-TI: International Civil Aviation Organization The International Civil Aviation Covenant

Disclaimer:

The information in this Safety Data Sheet (SDS) applies only to the products specified and does not apply to mixtures containing this product with other substances, unless otherwise specified. This Safety Data Sheet (SDS) is based on information currently available in all its aspects and will not be held responsible for its long-term timeliness. This Safety Data Sheet (SDS) provides

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information about the safety of the product for the intended purpose only to appropriately trained personnel operating the product. Users of this SDS must make independent judgments on the suitability of this SDS for special conditions of use. Under special conditions of use, the SDS author will not be responsible for the damage caused by the use of this Safety Data Sheet (SDS). Each user of the product should read carefully the contents of this Safety Data Sheet (SDS) before proceeding. For more information to ensure correct evaluation, please contact the product supplier.

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