Safety Data Sheet

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

Dipropylene glycol monomethyl ether

Version 1.0
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Section 1 Chemical Product and Company Identification

Chemical name:	Dipropylene glycol monomethyl ether
Additional identification:	DPM
Product code:	Not available
Identification of the product:	CAS# 34590-94-8 EC# 252-104-2

Relevant identified uses of the substance and uses advised against

Identified uses:	The solvent of paints and dyes, it is also the brake oil component.
Uses advised against:	Not available

Details of the supplier of the safety data sheet

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Section 2 Hazards Identification

Emergency Overview: Colourless liquid with mild odor. Combustible liquid. During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

GHS Classification:

Physical hazards	Flammable liquids	Category 4
Health hazards	Not classified	
Environmental hazards	Not classified	

Label elements

Pictogram:	No hazard pictogram is used.
Signal Word(s):	Warning
Hazard Statement:	Combustible liquid

Precautionary statement

Prevention:	Keep away from flames and hot surfaces. No smoking. Wear protective gloves/eye protection/face protection.
Response:	In case of fire: Use Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) to extinguish.
Storage:	Store in a well-ventilated place. Keep cool.
Disposal:	Dispose of contents/container in accordance with local regulations.
Physical and chemical hazards:	Combustible liquid. During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.
Health hazards:	Based on all known information, this product is not harmful.
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 %)
Dipropylene glycol monomethyl ether	34590-94-8	≥99%

Section 4 First Aid Measures

In case of inhalation: Move person to fresh air. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

In case of skin contact: Wash skin with plenty of water.

In case of eyes contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

In case of ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Most important symptoms and effects, both acute and delayed: Based on all known information, this product is not harmful.

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: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Unsuitable extinguishing media: No data available.

Special hazards arising from the chemical: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

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: Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

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:	Small spills: Absorb with materials such as: Sand. Vermiculite. Collect in suitable and properly labeled containers. Large spills: Contain spilled material if possible. Pump into suitable and properly labeled containers.
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 breathing vapor. Use with adequate ventilation. Keep container closed. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

Storage

Suitable storage conditions:	Eliminate all sources of combustion. Keep container hermetically closed in a dry and well ventilated environment.
Incompatible materials:	Strong acids. Strong bases. Strong oxidizers.
Safe packaging materials:	Keep it in the original container. Carbon steel. Stainless steel. Phenolic lined steel drums. Do not store in: Aluminum. Copper. Galvanized iron. Galvanized steel.

Section 8 Exposure Controls / Personal Protection

Occupational exposure limits:	Dipropylene glycol monomethyl ether (CAS#34590-94-8):OELs(mg/m3): MAC: -; PC-TWA: 600; PC-STEL: 900 Note: skin
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

Respiratory protection:	Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. Use the following CE approved air-purifying respirator: Organic vapor cartridge with a particulate pre-filter, type AP2.
Hand protection:	Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Butyl rubber. Polyethylene/ethyl vinyl alcohol laminate ("PE/EVAL"). Examples of acceptable glove barrier materials include: Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 1 or higher (breakthrough time greater than 10 minutes according to EN 374) is recommended.

Eye protection:	Use safety glasses.
Skin and body protection:	When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material. Selection of specific items such as faceshield, boots, apron, or full-body suit will depend on the task. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly.
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:	Colourless liquid
Odor:	Mild
Odor threshold:	No data available
Molecular formula:	$C_7H_{16}O_3$
Molecular weight:	148.2
Melting point/freezing point (°C):	-83 °C
Boiling point, initial boiling point (°C):	189.6 °C
Density:	0.95 g/cm³(20 °C)
Relative density(H_2O=1):	0.95 (20 °C)
Vapor pressure (75.1 °C) (kPa):	10 mm Hg
Partition coefficient (n-octanol/water):	log Pow: 0.004(25 °C)
Solubility in water:	Infinitely soluble in water at 25 °C
Solubility in organic solvents:	No data available
Flash point (°C):	75 °C
Auto-ignition temperature (°C):	207 °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	No data available
Explosive limit - lower (%):	1.1 %
Explosive limit - upper (%):	14 %
pH value:	No data available
Viscosity:	3.82mm²/s(25.0 °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.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	Incompatible materials. Do not distill to dryness. Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.
Incompatible materials:	Strong acids. Strong bases. Strong oxidizers.
Hazardous decomposition products:	Aldehydes. Ketones. Organic acids.

Section 11 Toxicological Information

Acute toxicity:

LD50(Oral, Rat):	> 5 000 mg/kg bw
LD50(Dermal, Rabbit):	9 510 mg/kg bw male
LC50(Inhalation, Rat, 4h):	No data available
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:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

Section 12 Ecological Information

Ecotoxicity

LC50 (Fish, 96h)	> 1 000 mg/L
LC50 (Daphnia, 48h)	1 919 mg/L
EC50 (Algae, 72h):	> 969 mg/L
Persistence and degradability:	Readily biodegradable.
Bioaccumulative potential:	No data available
Mobility in soil:	No data available

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:	Not regulated
UN Proper shipping name:	Not regulated
Transport hazard Class:	Not regulated
Packaging group:	Not regulated
Marine pollutant (yes/no):	No
Transport special precautions:	

—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	Not 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

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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