

**Safety data sheet as per COMMISSION REGULATION (EU) No 453/2010
of 20 May 2010 amending Regulation (EC) No 1907/2006
Product: Dipropylene Glycol Monomethyl Ether (DPM)**



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Dipropylene Glycol Monomethyl Ether (DPM)

CAS No.: 34590-94-8

EC No.: 252-104-2

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

Relevant identified uses: Solvent

Sector of use: SU 3 industrial uses

Environmental release category: Manufacture (ERC1) and formulations (ERC2)

Uses identified against:

1.3 Details of the supplier of the safety data sheet:

Manufacturer/Supplier:

Prasol Chemicals Ltd.,
Prasol House, Plot No.A-17/2/3,
T.T.C. Indl. Area, Khairne M.I.D.C.,
Navi Mumbai - 400 710
Maharashtra, India.
Tel: +91-22-27782555
Fax: +91-22-27782430

Further information obtainable from:

Mr. Dhaval Parikh

e-mail:sales@prasolchem.com; inquiry@prasolchem.com

Information in case of emergency:

Product safety department Tel: +91-22- 27782555; Fax:+91-22- 27782430

Other Comments (e.g. language(s) of the phone service): English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Flammable liquid 4 H227 Combustible liquid

2.1.2 Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Information concerning particular hazards for human and environment: Not applicable

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms none

Signal word Warning

Hazard-determining components of labeling: Void

Hazard statements

H227 Combustible liquid

Precautionary statements

P210 Keep away from heat, hot surfaces, open flames, sparks – No smoking

P280 Wear eye protection, protective clothing, protective gloves

P370+P378 In case of fire: Use alcohol resistant foam, carbon dioxide (CO₂), dry extinguishing powder, water spray to extinguish

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

P501 Dispose of contents and container to hazardous or special waste collection point, in accordance with national regulation

2.3 Other hazards

Results of PBT and vPvB assessment: Not applicable

SECTION 3: Composition/information on ingredients

Chemical characterization:

CAS No.	Description	Composition (%)
34590-94-8	Dipropylene Glycol Monomethyl Ether (DPM/ DPGME)	95-100

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Additional information:

Molecular Formula: C₇H₁₆O₂

Molecular Weight: 148.2g/mol

SECTION 4: First aid measures

4.1 General information: Consult a physician. Show this safety data sheet to the doctor in attendance.

After 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.

After skin contact: Wash skin with plenty of water.

After eye 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.

After swallowing: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

4.2 Most important symptoms and effects, both acute and delayed

Not expected to present a significant hazard under anticipated conditions of normal use

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

Information for doctor: Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Suitable extinguishing agents:

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2 Special hazards arising from the substance or mixture

5.3 Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Additional information Use water spray to cool unopened containers

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.2 Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment

See Section 13 for disposal information

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Take measures to prevent the buildup of electrostatic charge.

Information about fire - and explosion protection: Keep ignition sources away. Do not smoke.

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7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Air sensitive. Forms explosive peroxides on prolonged storage. May form peroxides on contact with air.

Storage class (TRGS 510): Flammable liquids

Information about storage in one common storage facility: Store away from incompatible materials.

Further information about storage conditions: Store away from moisture. Store in cool and dry place.

7.3 Specific end use(s) No further relevant information available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Protection of hands: Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles

Body protection:

Complete suit protecting against chemicals. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: colorless liquid
Odour	: Sweet, ether like
Odour threshold	: no data available
pH	: 6.0-7.0
Melting point/Melting range	: -80°C
Initial Boiling point/Boiling range	: 180-190°C
Flash point (closed cup)	: 70-80°C
Evaporation rate	: no data available
Flammability (solid, gas)	: not applicable
Upper/lower flammability or explosive limits:	

Lower : 1.1vol%

Upper : 14.0 vol%

Vapour pressure at 20°C : no data available

Vapour density : no data available

Relative density at 20°C : 0.95

Solubility in / Miscibility with water : no data available

Partition coefficient (n-octanol/water) at 25°C: no data available

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Auto-ignition temperature : 270°C
Decomposition temperature : no data available
Viscosity at 20°C : no data available
Explosive properties : none (structural reasons)
Oxidising properties : none (structural reasons)
9.2 Other information no further data

SECTION 10: Stability and Reactivity

10.1 Reactivity No dangerous reactions known.

10.2 Chemical stability

Under storage at normal ambient temperatures (- 40° C to + 40° C), the product is stable. May form peroxides on prolonged storage. Date container and periodically test for peroxides.

No hazardous reaction when handled and stored according to provisions.

10.3 Possibility of hazardous reactions No known hazardous reactions

10.4 Conditions to avoid Heat, flames and sparks.

10.5 Incompatible materials: Strong oxidizing agents, Strong bases

10.6 Hazardous decomposition products: carbon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD50 Oral rat 5.4ml/kg

LD50 Dermal rat 10ml/kg

Skin corrosion/irritation: not irritating (rabbit)

Serious eye damage/irritation: not irritating 24 h (rabbit)

Respiratory or skin sensitization: No sensitizing effects known.(guinea pigs)

Germ cell mutagenicity: non genotoxic

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: no data available

STOT-single exposure: no data available

STOT-repeated exposure: no data available

Aspiration hazard: no data available

Additional information: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Toxicity to fish	LC50	96h	>1000mg/L	Poecilia reticulata (guppy)
Toxicity to aquatic invertebrates	LC50	48h	1919 mg/L	Daphnia magna
Toxicity to aquatic algae and cyanobacteria	EC50	72h	>1000 mg/L	Pseudokirchneriella subcapitata
Toxicity to microorganisms	EC10	18h	4168mg/L	Pseudomonas putida

12.2 Persistence and degradability

Biodegradation readily biodegradable 76% 28d

12.3 Bio accumulative potential not expected to bioaccumulate.

12.4 Mobility in soil no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects No further relevant information available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product:

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

Land Transport (ADR/RID) Marine Transport (IMDG) Air Transport (ICAO/ IATA)

14.1 UN/ID Number: -

14.2 UN proper shipping name: -

14.3 Transport hazard class: -

14.4 Packaging group: -

14.5 Environmental hazards: not a marine pollutant

14.6 Special precautions for the user: combustible

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: no data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006

Hazard pictograms Please refer section 2

Signal word Warning

Labeling according to EU guidelines:

Code letter and hazard designation of product: Please refer section 2

Risk phrases: Please refer section 2

15.2 Chemical safety assessment A Chemical Safety Assessment has not been carried out and will be applicable at the time of REACH Registration.

Substances of very high concern (SVHC) according to REACH, Article 57 The substance is not listed as SVHC.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS:

Product safety department

Contact:

Tel: +91-22- 27782555

Fax: +91-22- 27782430

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EC50: effective concentration, 50%

EINECS: European Inventory of Existing Commercial Chemical Substances

EMS: Emergency Schedule

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

IC50: Half maximal inhibitory concentration

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50 percent

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

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International Transport of Dangerous Goods by Rail)

Sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

ECHA: <https://echa.europa.eu/registration-dossier/-/registered-dossier/14751>

CDC : <https://www.cdc.gov/niosh/npg/npgd0241.html>

Sigma MSDS :

<http://www.sigmaaldrich.com/MSDS/MSDS/DisplayMSDSPage.do?country=IN&language=en&productNumber=484253&brand=ALDRICH&PageToGoToURL=http%3A%2F%2Fwww.sigmaaldrich.com%2Fcatalog%2Fsearch%3Fterm%3D34590-94-8%26interface%3DCAS%2520No.%26N%3D0%26mode%3Dpartialmax%26lang%3Den%26region%3DIN%26focus%3Dproduct>

ChemIDplus: <https://chem.nlm.nih.gov/chemidplus/rn/34590-94-8>

HSDB : <https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/r?dbs+hsdb:@term+@rn+@rel+34590-94-8>

Data compared to the previous version altered.

- Section 1: Chemical Product and Company Identification
- Section 3: Composition and Information on Ingredients
- Section 4: First Aid Measures
- Section 5: Fire and Explosion Data
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