

Safety Data Sheet: Dipropylene Glycol Monomethyl Ether (DPM)

1. Identification

Product	Dipropylene Glycol Monomethyl Ether (DPM); CAS 34590-94-8; EC 252-104-2
Use	Professional coatings, cleaning and printing-ink formulation development.
Company	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / email	+86-21-54265599 / sales@zxchem.com.cn
Emergency contact	ZXCHEM office number above, office hours, China time (UTC+8). For urgent medical assistance contact local emergency services.
Scope	Reference safety information for Dipropylene Glycol Monomethyl Ether (DPM). The reference composition, concentration and supply-grade differences are described in Section 3. This document does not certify the composition or transport status of a specific delivered batch or a different formulation.

2. Hazards Identification

Classification	Selected US reference: flammable liquid Category 4; specific target organ toxicity, single exposure Category 3 (respiratory irritation).
Signal word / symbols	Warning; GHS07
Hazard statements	H227: combustible liquid. H335: may cause respiratory irritation.
Prevention	Provide effective general and local exhaust ventilation. Avoid vapour, aerosol and skin or eye contact; wear compatible chemical-resistant gloves, splash goggles and protective clothing. Control ignition and use suitable respiratory protection when exposure controls are insufficient.
Response	After exposure, stop work and seek medical advice. For severe exposure obtain urgent medical care. Rinse contaminated skin or eyes with water; move an inhalation casualty to fresh air.
Environment	Prevent uncontrolled release to drains, soil or surface water. Collect spills for appropriate disposal.



3. Composition / Information on Ingredients

Reference ingredient	Dipropylene glycol monomethyl ether, CAS 34590-94-8, EC 252-104-2; commercial isomer mixture. Selected substance reference range 90–100%; supplied content ≥99.0%. No unverified additive fraction is asserted.
Supply grade	Content ≥99.0%
Applicability	The cited concentration or purity describes the reference material. It is not a certificate of analysis for the delivered batch; different solvents or dilutions require the matching supplier safety document.

4. First-Aid Measures

General	Protect the rescuer from exposure and show the product information to medical personnel. Obtain medical advice if symptoms occur or exposure is significant.
Inhalation	Move to fresh air and keep the person comfortable. Seek medical care for breathing difficulty or persistent symptoms. Avoid exposing rescuers to mist.
Skin	Remove contaminated clothing and rinse skin thoroughly with water. Seek medical advice for persistent irritation.
Eyes	Rinse gently with clean water for at least 15 minutes. Remove contact lenses when easy and continue rinsing. Seek medical advice if irritation persists.
Ingestion	Do not induce vomiting. Rinse mouth if conscious, keep the airway clear and contact a poison centre or doctor. Never give anything orally to an unconscious person.
Effects / treatment	Vapour or aerosol can irritate the respiratory tract. Excess exposure can cause headache or dizziness; avoid prolonged skin and eye contact and obtain medical advice for persistent symptoms. Treatment is symptomatic and directed by a clinician.

5. Fire-Fighting Measures

Extinguishing media	Use carbon dioxide, dry chemical or alcohol-resistant foam; avoid a high-volume water jet. Cool closed containers with water spray when safe and contain contaminated runoff.
Hazards	Combustion can produce carbon oxides and irritating smoke. Vapours can form explosive mixtures with air.
Protection	Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains.

6. Accidental Release Measures

Personal protection	Provide effective general and local exhaust ventilation. Avoid vapour, aerosol and skin or eye contact; wear compatible chemical-resistant gloves, splash goggles and protective clothing. Control ignition and use suitable respiratory protection when exposure controls are insufficient.
Containment	Remove ignition sources and stop leakage when safe. Contain liquid with compatible inert absorbent and collect in labelled closed containers. Restrict access and use trained response personnel.
Environment	Prevent drainage and uncontrolled release; use an approved disposal route.

7. Handling and Storage

Handling	Provide effective general and local exhaust ventilation. Avoid vapour, aerosol and skin or eye contact; wear compatible chemical-resistant gloves, splash goggles and protective clothing. Control ignition and use suitable respiratory protection when exposure controls are insufficient.
Storage	Keep tightly closed in a cool, dry, well-ventilated area away from heat, sparks, open flames and strong oxidizers. Protect from contamination and unapproved contact materials.
Incompatibilities	Strong acids, strong bases, strong oxidizers, oxygen and unapproved aluminium contact; heat, flames and sparks.

8. Exposure Controls / Personal Protection

Exposure limits	Reference ACGIH and NIOSH TWA 100 ppm and STEL 150 ppm; NIOSH and OSHA TWA 600 mg/m ³ , with skin-exposure precautions. Apply the controlling local workplace requirement.
Engineering controls	Use local extraction where mist can be generated. Maintain accessible eyewash and emergency washing facilities.
Personal protection	Wear chemical-resistant gloves selected for the task, suitable protective clothing and splash goggles. Add face protection for splash-prone tasks.
Respiratory protection	Use a properly selected respirator under a respiratory-protection program where engineering controls do not adequately limit airborne exposure.
Hygiene	Wash after handling, remove contaminated clothing promptly and do not eat, drink or smoke in the work area.

9. Physical and Chemical Properties

Appearance	Colourless clear liquid
Formula / molecular weight	C ₇ H ₁₆ O ₃ / 148.20 g/mol
Physical state	Liquid
Flash point, reference	75°C
Relative density, reference	0.95–0.96 at 20–25°C
Freezing point, reference	–83°C
Water miscibility	Completely miscible
Other properties	Product-specific values for odor threshold, vapor pressure, partition coefficient, autoignition temperature and viscosity are not supplied by the selected reference set. No values are inferred.

10. Stability and Reactivity

Stability	Handle and store under the recommended conditions. Prevent contamination and unnecessary heating.
Incompatibilities	Strong acids, strong bases, strong oxidizers, oxygen and unapproved aluminium contact; heat, flames and sparks.
Decomposition	Combustion can produce carbon oxides and irritating smoke. Vapours can form explosive mixtures with air.

11. Toxicological Information

Exposure effects	Vapour or aerosol can irritate the respiratory tract. Excess exposure can cause headache or dizziness; avoid prolonged skin and eye contact and obtain medical advice for persistent symptoms.
Reference classification	Selected US reference: flammable liquid Category 4; specific target organ toxicity, single exposure Category 3 (respiratory irritation).
Data limits	The selected reference assigns respiratory irritation but provides no numerical acute toxicity endpoint. No supplied-lot chronic or reproductive study is asserted; manage vapour and skin exposure.

12. Ecological Information

Environmental effects	No quantitative aquatic, persistence or bioaccumulation endpoint is supplied by the selected reference. Prevent drainage and uncontrolled release.
Controls	Prevent uncontrolled release, collect spills and dispose of contaminated material through an authorized route.
Assessment	No product-specific PBT/vPvB assessment is claimed. Absence of data does not establish absence of environmental effects.

13. Disposal Considerations

Product	Collect surplus product and contaminated cleanup material for disposal by an authorized chemical-waste contractor in accordance with local requirements.
Packaging	Containers may retain product residues. Do not reuse contaminated packaging without an approved cleaning process; use an authorized disposal route.

14. Transport Information

Classification	Non-dangerous goods
UN number	Not assigned
Shipping name	Not regulated as dangerous goods
Class / packing group	IMDG and IATA: non-dangerous goods. US DOT bulk: NA1993, combustible liquid, n.o.s., packing group III. The selected reference allows qualifying non-bulk containers below 450 L to travel solely by land as non-regulated.
Transport precautions	Protect packaging and closures from damage, secure loads and prevent releases. This reference is not a shipping declaration for a specific consignment.

15. Regulatory Information

Identity	Dipropylene Glycol Monomethyl Ether (DPM); CAS 34590-94-8; EC 252-104-2
HS reference	290949; reference heading rather than a destination customs ruling.
Compliance	Apply applicable workplace, environmental and transport rules. A raw-material listing does not establish authorization for a finished formulation.
Assessment	No ZXCHEM-specific chemical safety assessment or destination registration is asserted.

16. Other Information

Hazard meanings	H227: combustible liquid. H335: may cause respiratory irritation.
Limitations	Prepared as reference safety information for the identified material. It is not a batch analytical certificate or safety assessment of a different solvent-containing formulation.
Revision	2026.1; prepared 2026-10-07. Customer-document branding and title corrected; technical safety data retained.
Document scope	Reference safety information for the material and grade described in Sections 1 and 3. Different concentrations, solvents or formulations require the applicable safety information. This is not a batch analytical certificate.

Revision: 2026.1 | Revision date: 2026-10-07