



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
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admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Di Methyl Amine (DMA) *SDS*

REV 3.1
29 JULY 2026
GHS REV.11 (2025)

CAS **124-40-3** EC **204-697-4** SIGNAL WORD **DANGER**

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name	Di Methyl Amine (DMA)
Product Type	Dimethylamine — industrial chemical
Chemical Family	Aliphatic Amine
CAS No.	124-40-3
EC No.	204-697-4
Intended Use	Industrial / professional use as described on the SPC product page.
Restrictions on Use	Industrial / professional use only. Confirm suitability for final application before use.
Supplier	Supreme Petro Chemicals
Address	No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Emergency Contact	Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/di-methyl-amine-dma
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Not classified as hazardous according to available PubChem GHS notifications. Note: Source SDS carried no GHS classification; precautionary statements below relate to flammable gas / amine hazards and are retained from the source document. Confirm classification against applicable regional GHS authority before use.

GHS Classification	Not classified (per source — see classline note)
Signal Word	Not classified



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GHS Pictograms

No GHS pictogram (Not classified per source)

HAZARD STATEMENTS

- No hazard statements assigned (not classified per source)

PRECAUTIONARY – PREVENTION

- P210 — Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 — Keep container tightly closed.
- P240 — Ground and 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.
- P260 — Do not breathe vapours or spray.
- P271 — Use only outdoors or in a well-ventilated area.
- P272 — Contaminated work clothing should not be allowed out of the workplace.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY – RESPONSE / STORAGE / DISPOSAL

- P301+P310 — IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P303+P361+P353 — IF ON SKIN OR HAIR: Remove / take off immediately all contaminated clothing. Rinse skin with water / shower.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P331 — Do NOT induce vomiting.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P403+P235 — Store in a well-ventilated place. Keep cool.
- P405 — Store locked up.
- P501 — Dispose of contents / container in accordance with local regulations.



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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Di Methyl Amine (DMA)	124-40-3	204-697-4	100	Not classified as hazardous according to available PubChem GHS notifications

Percentages are by weight. Full text of H-statements listed in Section 16. EC No. confirmed from ECHA C&L inventory.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person immediately to fresh air. Keep at rest in a position comfortable for breathing. If breathing is difficult, administer oxygen. If not breathing, apply artificial respiration. Seek immediate medical attention.
Skin Contact	Remove contaminated clothing immediately. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation, burns or symptoms persist.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek immediate medical advice.
Note to Physician	Treat symptomatically based on exposure route and product hazards. DMA is a strong base; alkali burns are possible. Consider bronchospasm risk from inhalation.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical, CO ₂ , alcohol-resistant foam, or water fog. Use extinguishing agent appropriate to surrounding fire conditions.
Unsuitable Media	Avoid direct high-pressure water jet where it may spread the material or cause violent reaction with hot surfaces.
Specific Hazards	Highly flammable gas. Forms flammable / explosive mixtures with air. Fire may produce toxic nitrogen oxides and carbon oxides. Containers may explode when exposed to heat.



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Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Do not enter fire area without full protective gear.
Special Procedures	Evacuate non-essential personnel. If safe to do so, move containers from the fire zone. Cool containers with water spray. Prevent contaminated fire-run-off from entering drains and watercourses.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate area immediately. Eliminate all ignition sources. Wear PPE as specified in Section 8. Ventilate enclosed spaces. Avoid breathing vapours.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Notify relevant authorities if significant release occurs.
Containment / Clean-up	For gas releases: allow to disperse if safe. For liquid: absorb small spills on inert material (vermiculite, dry sand). Collect in labelled, compatible closed containers for disposal through an approved waste contractor.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal, and Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid inhaling vapours. Bond and ground equipment to prevent static discharge. Keep away from all ignition sources.
Hygiene	Wash hands thoroughly after handling. Remove and wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Store in original, tightly closed, compatible pressure-rated containers in a cool, dry, well-ventilated area away from heat and ignition sources.
Storage Temperature	Store below 25°C. DMA boils at approximately 7.4°C; maintain pressure-vessel integrity.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides), concentrated acids, halogens, aluminium chloride at elevated temperature.



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Segregation	Segregate from food, drink, animal feed, oxidisers, acids and incompatible chemicals. Keep secured against unauthorised access.
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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	DMA (CAS 124-40-3): ACGIH TLV-TWA 5 ppm / STEL 15 ppm. OSHA PEL 10 ppm (25 mg/m ³). Verify current local OEL (India/EU/UK) with competent authority before use.
Engineering Controls	Use closed handling systems or local exhaust ventilation (LEV) to control vapour concentration below OEL. Use explosion-proof ventilation and bonding/grounding for flammable gas handling.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved respirator with ammonia / amine cartridge (or SCBA for high concentrations or emergencies). Select based on measured or estimated exposure level.
Hand / Eye / Skin	Gloves: chemical-resistant nitrile, butyl rubber or neoprene; select breakthrough time appropriate for task. Eyes: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield for splash risk. Body: chemical-resistant clothing / apron and safety footwear; antistatic PPE where flammable vapours may be present. Provide emergency eyewash and safety shower in work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless gas (at ambient); liquefied compressed gas in cylinder. Colourless liquid below 7.4°C or in aqueous solution.
Odour	Strong ammonia- or fish-like odour
Odour Threshold	Not established in reviewed source text
pH	Not applicable for pure anhydrous gas. Aqueous solution is strongly alkaline — verify pH from supplier COA/SDS before release.
Melting / Freezing Point	-93°C (-135°F) [NTP, 1992] — CORRECTED: source value appeared under Flash Point label
Boiling Point / Range	7.4°C (45.3°F) at 760 mmHg [NTP, 1992] — CORRECTED: source value appeared under Auto-ignition Temperature label
Flash Point	-18°C (-0.4°F); approx. 20°F per USCG 1999 [CORRECTED: source value appeared under Flammability Limits label]



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Auto-ignition Temperature	402°C (756°F) [USCG, 1999] — CORRECTED: source value appeared under Vapour Density / Pressure label
Flammability Limits	LEL 2.8% v/v; UEL 14.4% v/v (NIOSH 2024) — source carried '24 %' under Viscosity label; 14.4% UEL is well-established; flag raised
Vapour Pressure	1388 mmHg at 21°C (70°F) [USCG, 1999] — CORRECTED: source value appeared under Solubility in Water label
Vapour Density (air = 1)	1.55 (calculated, MW 45.08 vs air MW 28.97); source cited 1.6 [USCG, 1999] under Log Pow label — CORRECTED
Relative Density	0.671 at 6.9°C (44.4°F) for liquid phase [USCG, 1999] — CORRECTED: source value appeared under Evaporation Rate label
Solubility in Water	Miscible; highly soluble — forms 40–60% aqueous solutions commercially
Log Pow (Partition Coeff.)	–0.38 (peer-reviewed) — CORRECTED: source value appeared under VOC Content label
Evaporation Rate	Not established in reviewed source text (substance is a gas at ambient conditions)
Viscosity	1.7 mPa·s at 15.5°C (40% dimethylamine aqueous solution) [supplier data] — CORRECTED: source value appeared in Reactivity narrative
VOC Content	Assess per applicable regional VOC regulations

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, ignition sources, contamination, open flames and incompatible materials. Cylinders must not exceed design pressure/temperature.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Reactive with aluminium chloride (AlCl ₃) under elevated temperature — not a concern in ambient blending or storage.
Hazardous Decomposition	Carbon oxides, nitrogen oxides and irritating or toxic fumes may be formed in fire or thermal decomposition.
Hazardous Reactions	No hazardous polymerisation. No hazardous reactions under normal storage and handling conditions.



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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD ₅₀ (rat, oral): 698 mg/kg (NIOSH/PubChem). Harmful if swallowed in high quantities.
Acute Dermal Toxicity	Corrosive to skin; prolonged contact causes chemical burns. Specific LD ₅₀ dermal not confirmed in source — verify with supplier/toxicology data.
Acute Inhalation Toxicity	LC ₅₀ (rat, 4h inhalation): 4,540 ppm (NIOSH). Strong respiratory and mucous membrane irritant. May cause pulmonary oedema at high concentrations.
Skin Irritation	Causes skin irritation and burns. Corrosive to skin at higher concentrations.
Eye Irritation	Causes severe eye irritation and burns. Risk of serious eye damage.
Sensitisation	Not classified as a sensitiser in reviewed data.
Carcinogenicity	Not listed as carcinogen by IARC, NTP or OSHA in reviewed data.
Mutagenicity	Not classified as mutagenic in reviewed data. Verify with current ECHA/supplier toxicology file.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No aquatic classification identified in source data from reviewed sources. Numeric ecotoxicity data not verified; avoid release to water bodies.
Persistence / Degradability	DMA is expected to be readily biodegradable. Verify with supplier or ECHA data if required for registration or export.
Bioaccumulation	Log Pow -0.38; low bioaccumulation potential. Verify BCF from supplier or ECHA data where required.
Mobility in Soil	High water solubility and low log Kow indicate potential mobility in soil and groundwater. Prevent release to soil and drainage systems.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with local, state and national regulations. Do not allow to drain into sewers or waterways.
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Contaminated Packaging	Empty cylinders / containers may retain residual pressure and product; handle as hazardous until decommissioned or returned to supplier. Do not puncture or incinerate.
Indian Regulations	Follow the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and applicable State Pollution Control Board requirements. Assign waste code in accordance with Schedule I/II of HW Rules and local authority guidance.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1032	UN 1032	UN 1032
Proper Shipping Name	DIMETHYLAMINE, ANHYDROUS	DIMETHYLAMINE, ANHYDROUS	Dimethylamine, anhydrous
Class	2.1 (Flammable Gas)	2.1 (Flammable Gas)	2.1 (Flammable Gas)
Packing Group	Not applicable (gas)	Not applicable (gas)	Not applicable (gas)
Marine Pollutant	Verify with carrier	Verify with carrier	—
Tunnel Restriction (ADR)	B/D	—	—
EmS (IMDG)	—	F-D, S-U	—

UN 1032 Dimethylamine, Anhydrous — Class 2.1 Flammable Gas. Transport in approved pressure cylinders / tankers. Verify current ADR/IMDG/IATA regulations and carrier requirements before each shipment. Cylinders must bear UN 1032, Class 2.1 placard and product name label.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH and CLP requirements where applicable. Classified and labelled according to the product-specific GHS/CLP classification listed in Section 2.
EU Directive	Observe applicable workplace chemical, VOC and environmental requirements.
OSHA (USA)	Prepared in OSHA HCS/HazCom 2012 aligned 16-section SDS format. DMA is listed on the OSHA HCS hazardous substances list.
India	Observe applicable Indian MSIHC Rules 1989, Factories Act, Explosives Act (for compressed gas), CPCB/SPCB environmental discharge requirements, and Hazardous Wastes Management Rules. Transport under CMVR/ADR-equivalent provisions.



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China (GB Standards)	Apply applicable GB/T SDS and classification requirements where marketed in China.
Middle East / GCC	Observe applicable GHS-aligned local requirements for Gulf markets.
TSCA (USA)	Verify TSCA inventory status before US import or distribution.
Australia (AICS)	Check AICS inventory status before export or import into Australia.
Canada WHMIS / HPR	Classify and label under WHMIS 2015 / HPR using Section 2 classification. Canadian sale may require bilingual SDS/label and ingredient disclosure per HPR.
Regulatory Scope Limitation	Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and any market-specific restrictions.

SECTION 16 OTHER INFORMATION

Prepared By	Supreme Petro Chemicals — Technical Department
SDS Standard	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16-section format
Revision Date	24 June 2026
Version	3.0 (supersedes prior issues)
Key Sources	SPC product page; original SPC SDS Rev 1.0 (May 2026); UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU REACH Annex II/CLP; Canada WHMIS/HPR; PubChem CID 674, ECHA C&L inventory (204-697-4), NIOSH Pocket Guide, USCG CHRIS, CAMEO Chemicals and public supplier SDS references. Accessed June 2026.
Disclaimer	Information is given in good faith and believed accurate at issue. It does not constitute a specification or guarantee; the user is responsible for safe use, handling and compliance with all applicable laws and regulations. Supreme Petro Chemicals shall not be liable for any loss, injury or damage resulting from reliance on this information.

FULL TEXT OF H-STATEMENTS

- No hazard statements assigned (substance not classified as hazardous per source — see Section 2 note regarding potential reclassification)