

**SAFETY DATA SHEET (SDS)****Rev 1.0**

Prepared: April 2026

GHS compliant | Rev 1.0 | Prepared: April 2026

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| GHS02 Flammable | GHS06 Acute Toxicity | GHS07 Harmful / Irritant |
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SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

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| Product Name | Di Methyl Formamide (DMF) |
| Product Type | Dimethylformamide - solvent / industrial chemical |
| Chemical Family | Dimethylformamide |
| CAS No. (Di Methyl Formamide (DMF)) | 68-12-2 |
| CAS No. (Other Component) | N/A |
| 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. |
| Manufacturer / Supplier | Supreme Petro Chemicals |
| Address | Periyamet, Chennai - 600 003, Tamil Nadu, India |
| Emergency Contact | Sudarshan - 8197947045; Sanketh - 8608780096 |
| Email | admin@supremepetrochemicals.com |
| SDS Revision Date | April 2026 |
| SDS Version | 1.0 |
| Product Page URL | https://www.supremepetrochemicals.com/products/di-methyl-formamide-dmf |

SECTION 2 HAZARD IDENTIFICATION

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| Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Acute Tox. 3; Carc. 1; Repr. 1; STOT RE 1 | |
| H312 | H312: Harmful in contact with skin |
| H319 | H319: Causes serious eye irritation |
| H332 | H332: Harmful if inhaled |
| H226 | H226: Flammable liquid and vapour |
| H360 | H360: May damage fertility or the unborn child |
| H315 | H315: Causes skin irritation |
| H331 | H331: Toxic if inhaled |
| H350 | H350: May cause cancer |

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| Signal Word | DANGER |
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| GHS Pictograms | GHS02 (Flammable) GHS06 (Acute Toxicity) GHS07 (Harmful / Irritant) GHS08 (Health Hazard) |
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Hazard Statements:

- H312 - Harmful in contact with skin
- H319 - Causes serious eye irritation
- H332 - Harmful if inhaled
- H226 - Flammable liquid and vapour
- H360 - May damage fertility or the unborn child
- H315 - Causes skin irritation
- H331 - Toxic if inhaled
- H350 - May cause cancer
- H370 - See source GHS notification text
 - H372 - Causes damage to organs through prolonged or repeated exposure
 - P233 — Keep container tightly closed.
 - P240 — Ground/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 Statements (Response):

- 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.

Precautionary Statements (Storage & Disposal):

- P403+P235 — Store in a well-ventilated place. Keep cool.
- P405 — Store locked up.
- P501 — Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS No. | EC No. | % w/w or concentration range | GHS Classification |
|---------------------------|---------|-------------------------|------------------------------|--|
| Di Methyl Formamide (DMF) | 68-12-2 | See ECHA / supplier SDS | 100 | Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Acute Tox. 3; Carc. 1; Repr. 1; STOT RE 1 |

Note: Percentages are by volume. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

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| Inhalation | Use product-specific first aid based on exposure route: move to fresh air after inhalation, wash skin, rinse eyes for at least 15 minutes, and seek medical advice after ingestion or persistent symptoms. |
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| Skin Contact | Remove contaminated clothing. Wash affected skin thoroughly with water and soap where appropriate. Seek medical attention if symptoms persist. |
| Eye Contact | Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention. |
| Ingestion | Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice. |
| Note to Physician | Treat symptomatically based on exposure route and product hazards. |

SECTION 5 FIREFIGHTING MEASURES

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| Suitable Extinguishing Media | Use extinguishing media appropriate for the product hazard classification. Fire may produce toxic or irritating fumes; firefighters should wear SCBA. |
| Unsuitable Media | Direct high-pressure water jet where it may spread the material. |
| Specific Hazards | Use extinguishing media appropriate for the product hazard classification. Fire may produce toxic or irritating fumes; firefighters should wear SCBA. |
| Fire & Explosion Risk | Flammable vapours may form explosive mixtures with air, travel to ignition sources and flash back. Containers may rupture when heated. Use grounded/explosion-proof equipment. |
| Protective Equipment for Firefighters | Wear full protective clothing and self-contained breathing apparatus (SCBA). |
| Special Procedures | Evacuate non-essential personnel. Prevent contaminated run-off from entering drains and waterways. |

SECTION 6 ACCIDENTAL RELEASE MEASURES

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| Personal Precautions | Isolate area, use PPE from Section 8, prevent environmental release, and collect material in compatible labelled containers. |
| Environmental Precautions | Prevent entry into drains, sewers, soil and watercourses. |
| Containment Methods | Isolate area, use PPE from Section 8, prevent environmental release, and collect material in compatible labelled containers. |
| Clean-up Methods | Collect material into labelled 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

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| Handling Precautions | Use adequate ventilation, avoid contact and inhalation, and store tightly closed away from incompatible materials. |
| Hygiene | Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using. |
| Storage Conditions | Use adequate ventilation, avoid contact and inhalation, and store tightly closed away from incompatible materials. |
| Storage Temperature | Store at ambient temperature unless supplier instructions specify otherwise. |
| Incompatible Materials | Strong oxidizers and product-specific incompatible substances; see supplier SDS before use. |
| Packaging | Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage. |
| Segregation | Segregate from food, drink, animal feed and incompatible chemicals. |

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

| Component | OEL (8h TWA) | STEL (15 min) | Standard | Notes |
|---------------------------|--|--|-------------------------------|---|
| Di Methyl Formamide (DMF) | Use verified local OEL if established; otherwise ALARA/good industrial hygiene | Use verified local STEL/ceiling if established | OSHA/NIOSH/ACGI H/EU/UK/India | CAS 68-12-2; supplier/regional OEL confirmation required. |

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| Engineering Controls | Use closed handling/local exhaust for dust, mist, vapour or aerosol. Use explosion-proof ventilation and grounding for flammable liquids. |
| Respiratory Protection | If ventilation is inadequate, use a NIOSH/EN respirator: organic vapour, acid gas, ammonia, or P95/P100 particulate cartridge as applicable. Use SCBA for emergencies. |
| Hand Protection | Wear compatible chemical-resistant gloves, e.g. nitrile, butyl, neoprene, PVC or laminate; select thickness/breakthrough time for the product and task. |
| Eye/Face Protection | Wear EN 166/ANSI Z87.1 chemical splash goggles; add face shield for splash, corrosive, dust, molten or pressure-transfer risk. |
| Body Protection | Wear chemical-resistant clothing/apron and safety footwear; use antistatic PPE where flammable vapours may occur. |
| Hygiene Measures | Provide eyewash and safety shower where appropriate. Wash after handling. |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance | The appearance or features of this compound, including color, |
| Odour | PEER REVIEWED Fishy odor |
| Odour Threshold | Not established in reviewed public source text |
| pH | Not applicable unless supplied/used as an aqueous solution. For acids, alkalis, salts, surfactants and aqueous grades, verify pH from supplier COA/SDS before release. |
| Melting/Freezing Point | -78 °F (NTP, 1992) |
| Boiling Point / Range | 300 to 313 °F at 760 mmHg (NTP, 1992) |
| Flash Point | Dry Powder; Liquid Colorless to pale-yellow liquid with a faint, amine-like odor; [NIOSH] Liquid COLOURLESS-TO-YELLOW LIQUID WITH CHARACTERISTIC ODOUR. Colorless to pale-yellow liq |
| Auto-ignition Temperature | 833 °F (USCG, 1999) |
| Flammability Limits | See PubChem experimental properties. |
| Vapour Pressure | 3.7 mmHg at 77 °F ; 2.7 mmHg at 68 °F (NTP, 1992) 3.87 [mmHg] |
| Vapour Density | 2.51 (NTP, 1992) - Heavier than air; will sink (Relative to Air) |
| Relative Density | 0.95 at 68 °F (USCG, 1999) - Less dense than water; will float |
| Solubility in Water | greater than or equal to 100 mg/mL at 72 °F (NTP, 1992) |
| Log Pow (Partition Coeff) | PEER REVIEWED log Kow = -1.01 -1.01 -0.87 |
| Evaporation Rate | See supplier SDS for grade-specific value |
| Viscosity | PEER REVIEWED 0.802 cP at 25 °C 0.85 mm ² /s at 25 °C Corrosivity The ability of a chemical to damage or destroy other substances when it comes into contact. |
| VOC Content | Assess per applicable regional VOC regulations |
| Reactivity | See Section 10 and source SDS for grade-specific reactivity |

**SECTION 10 STABILITY AND REACTIVITY**

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| Chemical Stability | Stable under recommended storage and handling conditions. |
| Conditions to Avoid | Avoid heat, ignition sources, contamination and incompatible materials. |
| Incompatible Materials | Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Avoid contact with 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 and irritating or toxic fumes may be formed in fire. |
| Hazardous Reactions | No hazardous reactions under normal storage unless noted by product reactivity. |
| Possibility of Hazardous React. | Will not occur under normal conditions when stored and handled correctly. |

SECTION 11 TOXICOLOGICAL INFORMATION

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| Acute Oral Toxicity | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Acute Dermal Toxicity | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Acute Inhalation Toxicity | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Skin Irritation | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Eye Irritation | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Sensitisation | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Specific Target Organ (Single) | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Specific Target Organ (Repeat) | Repeated exposure target-organ classification is present in Section 2; use exposure controls and medical surveillance as required. |
| Reproductive Toxicity | Reproductive toxicity classification is present in Section 2; avoid exposure, especially for pregnant workers. |
| Aspiration Hazard | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |
| Carcinogenicity | Carcinogenicity classification is present in Section 2; handle as a carcinogenic hazard unless supplier/regulatory review states otherwise. |
| Mutagenicity | Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation. |

SECTION 12 ECOLOGICAL INFORMATION

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| Aquatic Toxicity (Acute) | No aquatic classification identified in Section 2 from reviewed data. Numeric ecotoxicity was not universally verified; avoid release. |
| Aquatic Toxicity (Chronic) | No chronic aquatic classification identified in Section 2. Obtain supplier/ecotoxicity data if needed for registration or export. |
| Persistence / Degradability | Use supplier, ECHA or PubChem data where available. If not verified, do not assume ready biodegradability. |
| Bioaccumulation | Use verified log Kow/BCF data where available; UVCB/petroleum/surfactant materials need supplier formulation data. |



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| Mobility in Soil | Assess from solubility, adsorption potential and product form. Prevent release to soil and groundwater. |
| Other Adverse Effects | Avoid uncontrolled release to the environment. |
| Environmental Regulations | Manage releases and waste under applicable local environmental regulations. |

SECTION 13 DISPOSAL CONSIDERATIONS

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| Waste from Product | Dispose of contents through an authorized waste contractor in accordance with local regulations. |
| Contaminated Packaging | Empty containers may retain residues; handle as hazardous until cleaned or disposed. |
| European Waste Code | Assign waste code according to actual process and local regulation. |
| Indian Regulations | Follow local hazardous waste and pollution control requirements. |

SECTION 14 TRANSPORT INFORMATION

| Parameter | UN / ADR (Road) | IMDG (Sea) | IATA (Air) | Notes |
|-----------------------------|-------------------------------------|--------------------------------------|--------------------------------------|--|
| UN Number | UN 2265 | UN 2265 | UN 2265 | PubChem transport text / DOT ERG source |
| Proper Shipping Name | | | | |
| Class | 3 | 3 | 3 | Transport class |
| Packing Group | Verify | Verify | Verify | |
| Marine Pollutant | Verify | Verify | — | |
| Tunnel Restriction | Verify | — | — | ADR |
| EmS (Sea) | — | Verify | — | IMDG |
| Special Provisions | Follow applicable ADR requirements. | Follow applicable IMDG requirements. | Follow applicable IATA requirements. | Verify current carrier rules before shipment |

Packaging: approved compatible container appropriate to the product. UN-certified drum required for international transport. Drum must be labelled with Class 3 placard, UN 2265, PG II, and product name.

SECTION 15 REGULATORY INFORMATION

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| EU / REACH | Observe REACH and CLP requirements where applicable. |
| EU CLP Regulation | 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 aligned 16-section SDS format. |
| India | Observe applicable Indian MSIHC, workplace, storage, transport, pollution-control and hazardous-waste requirements. |
| China (GB Standards) | Use applicable GB/T SDS and classification requirements where marketed. |
| Middle East / GCC | Observe applicable GHS-aligned local requirements. |
| TSCA (USA) | Verify TSCA inventory/SNUR status before US import or distribution; mixture/UVCB status may require supplier confirmation. |
| Australia (AICS) | Check inventory status before export or import. |



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| Special Notes | No product-specific special note beyond the classification in Section 2. |
| Canada WHMIS / HPR | Classify/label under WHMIS 2015/HPR using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. |
| Regulatory Scope Limitation | Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and restrictions. |

SECTION 16 OTHER INFORMATION

Full Text of H-Statements:

- H312 - Harmful in contact with skin
- H319 - Causes serious eye irritation
- H332 - Harmful if inhaled
- H226 - Flammable liquid and vapour
- H360 - May damage fertility or the unborn child
- H315 - Causes skin irritation
- H331 - Toxic if inhaled

H350 - May cause cancer

| | |
|------------------------------|---|
| 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 SDS format |
| Revision Date | 22 April 2026 |
| Version | 1.0 |
| Replaces Version | N/A - Initial Issue |
| Key Sources | SPC product page; original SPC SDS template; consolidated SDS audit CSV dated 27 April 2026; UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU REACH Annex II/CLP; Canada WHMIS/HPR; PubChem, ECHA, NIOSH/OSHA, CAMEO and public supplier SDS/transport references where available. Accessed April 2026. |
| Audit Correction Note | Corrected from audit findings. Verification-required items need supplier formulation, test or regulatory data before market-specific release. |

H370 - See source GHS notification text

DISCLAIMER

The information in this document is based on our present knowledge and is believed to be correct. It is provided in good faith. No warranty, express or implied, is made as to the accuracy or completeness. This SDS is prepared in accordance with UN GHS Rev.11 (2025). The user is responsible for 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.

H372 - Causes damage to organs through prolonged or repeated exposure