



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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SAFETY DATA SHEET (SDS)

Methyl Iso Butyl Ketone (MIBK) *SDS*

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

CAS **108-10-1** EC **203-550-1** SIGNAL WORD **DANGER**

GHS02

Flammable Liquid

GHS06

Acute Toxicity

GHS07

Harmful / Irritant

GHS08

Health Hazard

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

Product Name	Methyl Iso Butyl Ketone (MIBK)
Product Type	Solvent / industrial chemical
Chemical Family	Ketone
CAS No.	108-10-1
EC No.	203-550-1
Intended Use	Industrial solvent for paints, coatings, adhesives, rubber and chemical synthesis
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/methyl-iso-butyl-ketone-mibk
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 2; Eye Irrit. 2; Acute Tox. 4 (Inhalation); STOT SE 3; Carc. 2; STOT RE 2

Signal Word DANGER

GHS Pictograms GHS02 (Flammable Liquid) | GHS06 (Acute Toxicity) | GHS07 (Harmful / Irritant) | GHS08 (Health Hazard)

HAZARD STATEMENTS

- H225 — Highly flammable liquid and vapour
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled
- H336 — May cause drowsiness or dizziness
- H335 — May cause respiratory irritation
- H351 — Suspected of causing cancer
- H372 — Causes damage to organs through prolonged or repeated exposure

PRECAUTIONARY — PREVENTION

- 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 — RESPONSE / STORAGE / DISPOSAL

- P301+P310 — IF SWALLOWED: Immediately call a POISON CENTER or doctor.



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- 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.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Methyl Iso Butyl Ketone (MIBK)	108-10-1	203-550-1	100	Flam. Liq. 2; Eye Irrit. 2; Acute Tox. 4 (Inhalation); STOT SE 3; Carc. 2; STOT RE 2

Full text of H-statements listed in Section 16.

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 symptoms persist, seek 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 develops or persists.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Seek medical attention.
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice immediately. Do not give anything by mouth to an unconscious person.



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Note to Physician	Treat symptomatically based on exposure route and product hazards. CNS depression may occur at high vapour concentrations.
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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical powder, CO ₂ , alcohol-resistant foam, or water spray. Use water spray to cool fire-exposed containers.
Unsuitable Media	Direct high-pressure water jet (may spread burning liquid).
Specific Hazards	Highly flammable liquid (Flash Point 14°C). Flammable vapours may form explosive mixtures with air; vapours are heavier than air and may travel to ignition sources and flash back. Containers may rupture or explode when heated. Combustion produces carbon monoxide, carbon dioxide, and irritating fumes.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Use grounded and explosion-proof equipment.
Special Procedures	Evacuate non-essential personnel upwind. Cool containers exposed to fire with water spray. Prevent contaminated fire-fighting run-off from entering drains, sewers, or waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate non-essential personnel. Eliminate all sources of ignition. Use PPE described in Section 8. Avoid inhalation of vapours. Ventilate area thoroughly.
Environmental Precautions	Prevent entry into drains, sewers, soil, and watercourses. Contain spill to prevent environmental contamination. Notify relevant authorities if large release occurs.
Containment / Clean-up	Contain spill with inert absorbent material (sand, vermiculite, dry earth). Collect material into labelled, compatible, sealed containers for disposal through an approved waste contractor. Wash contaminated surfaces with water.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal, and Section 15 for regulatory information.



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SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use only in well-ventilated areas or with local exhaust ventilation. Avoid contact with skin, eyes, and clothing. Avoid breathing vapours. Keep away from all sources of ignition. Use grounded and explosion-proof equipment. Use only non-sparking tools.
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 containers (e.g. carbon steel, stainless steel). Inspect containers regularly for leakage or damage. Store in a cool, dry, well-ventilated area away from heat and ignition sources.
Storage Temperature	Ambient temperature (below 30°C recommended); keep cool.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides), concentrated acids, halogens. Reactive with aluminium chloride under elevated temperature.
Segregation	Segregate from food, drink, animal feed, oxidisers, and other incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	MIBK (CAS 108–10–1): OSHA PEL 100 ppm (8h TWA); ACGIH TLV 20 ppm TWA, 75 ppm STEL; UK WEL 20 ppm (8h TWA), 75 ppm STEL. Verify current local OELs before use (India: check CPCB/MoEF and factory regulations).
Engineering Controls	Use closed-handling systems and local exhaust ventilation for vapour control. Use explosion-proof ventilation and electrical equipment where flammable vapours may occur. Provide adequate general ventilation.
Respiratory Protection	If ventilation is inadequate: use NIOSH/EN 141-approved organic vapour respirator (OV cartridge, minimum half-face mask). Use SCBA for emergency situations or confined space entry.
Hand / Eye / Skin	Gloves: chemical-resistant (nitrile, butyl rubber, or neoprene; verify breakthrough time for prolonged contact). Eyes/Face: EN 166 / ANSI Z87.1 chemical splash goggles; add full face shield for splash risk. Skin: chemical-resistant apron or coverall and safety footwear; use



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antistatic PPE where flammable vapours may occur. Provide
eyewash station and safety shower at worksite.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless, mobile liquid
Odour	Pleasant, fruity, ketone-like odour
Odour Threshold	Not established in reviewed public source
pH	Not applicable (non-aqueous liquid)
Melting / Freezing Point	-84.7°C (-120.5°F) [NTP, 1992]
Boiling Point / Range	115.8°C (243–244°F) at 760 mmHg [NTP, 1992]
Flash Point	14°C (57°F) closed cup (literature value; verify with supplier COA)
Auto-ignition Temperature	456°C (853°F) [USCG, 1999]
Flammability Limits	LEL 1.2% v/v; UEL 8.0% v/v (literature; verify with supplier)
Vapour Pressure	19.9 mmHg at 20°C; 5 mmHg at 19.7°C (67.5°F); 10 mmHg at 30°C (86.0°F) [NTP, 1992]
Vapour Density (air = 1)	3.45 (heavier than air; will sink) [NTP, 1992]
Relative Density	0.802 at 20°C (68°F) (less dense than water; will float) [USCG, 1999]
Solubility in Water	~19 g/L at 20°C (partly miscible); NTP 1992 cites 1–5 mg/mL at 21°C (70°F) — see flag
Log Pow (Partition Coeff.)	1.31–1.38 [PEER REVIEWED, PubChem]
Evaporation Rate	See supplier SDS for grade-specific value
Viscosity	~0.6 mPa·s at 20°C (see supplier COA)
VOC Content	100% (exempt solvent status varies by jurisdiction; assess per applicable VOC regulations)

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Heat, open flames, sparks, ignition sources, contamination, and incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides); concentrated acids; halogens. Reactive with aluminium chloride (AlCl ₃) under elevated temperature — not a concern in normal ambient blending or storage.
Hazardous Decomposition	Carbon monoxide, carbon dioxide, and irritating or toxic fumes/smoke may form under fire conditions.



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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	LD50 (rat, oral): ~2080 mg/kg (literature). GHS Acute Tox. 4 classification not assigned by oral route in standard classification; verify with supplier toxicological data.
Acute Dermal Toxicity	Limited data. Prolonged or repeated skin contact may cause defatting and dermatitis.
Acute Inhalation Toxicity	LC50 (rat, 4h): ~8000 ppm (literature). Classified Acute Tox. 4 (Inhalation) – H332: Harmful if inhaled. High vapour concentrations cause CNS depression.
Skin Irritation	May cause mild to moderate skin irritation with prolonged contact. Repeated contact causes defatting.
Eye Irritation	Classified Eye Irrit. 2 – H319: Causes serious eye irritation.
Sensitisation	Not classified as a skin or respiratory sensitiser.
Carcinogenicity	Classified Carc. 2 – H351: Suspected of causing cancer (based on animal studies; human carcinogenicity not conclusively established for MIBK). Avoid inhalation and prolonged exposure.
Mutagenicity	Not classified as a germ cell mutagen.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	LC50 (fish, 96h): 505–600 mg/L (literature). EC50 (Daphnia, 48h): ~340 mg/L. No aquatic hazard classification identified from reviewed data; however, avoid release to aquatic environments.
Persistence / Degradability	Readily biodegradable under aerobic conditions (literature). BOD/COD ratio indicates good biodegradability; verify with supplier data.
Bioaccumulation	Log Pow 1.31–1.38 — low bioaccumulation potential (BCF expected <100).
Mobility in Soil	Moderately mobile in soil due to low Koc; partially water-soluble. Prevent release to soil and groundwater.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations.



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SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of product and contaminated materials through an authorised hazardous waste contractor in accordance with local, state, and national regulations. Do not pour down drains or sewers.
Contaminated Packaging	Empty containers may retain residues and flammable vapours; handle as hazardous until cleaned or disposed. Return to supplier or dispose through authorised contractor.
Indian Regulations	Follow applicable provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, and applicable CPCB/State PCB requirements. Assign waste code per actual process and local regulation.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1245	UN 1245	UN 1245
Proper Shipping Name	METHYL ISOBUTYL KETONE	METHYL ISOBUTYL KETONE	Methyl isobutyl ketone
Class	3	3	3
Packing Group	II	II	II
Marine Pollutant	No	No	N/A

UN-certified container required for international transport. Drum must be labelled with Class 3 placard, UN 1245, PG II, and product name. ADR Tunnel Restriction: D/E. IMDG EmS: F-E, S-D. Verify current carrier rules before each shipment. Packing Group II confirmed from DOT/PubChem transport references.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Classified and labelled according to the product-specific GHS/CLP classification listed in Section 2. Observe REACH registration, downstream user, and supply chain communication requirements where applicable.
OSHA (USA)	Prepared in OSHA HCS/HazCom-aligned 16-section SDS format. TSCA: verify inventory/SNUR status before US import or distribution.
India	Observe applicable Indian MSIHC Rules 1989, Factories Act, Hazardous and Other Wastes Rules 2016, Motor Vehicles Act (transport), and relevant CPCB/State PCB pollution-control and hazardous-waste requirements.



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Other Jurisdictions	Canada WHMIS 2015/HPR: classify and label per Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. China: use applicable GB/T SDS and classification requirements. GCC / Middle East: observe applicable GHS-aligned local requirements. Australia (AICS): check inventory status before export or import. Final market placement requires confirmation of local OELs, transport class, waste code, and restrictions.
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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)
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.

FULL TEXT OF H-STATEMENTS

● H225 — Highly flammable liquid and vapour
● H319 — Causes serious eye irritation
● H332 — Harmful if inhaled
● H335 — May cause respiratory irritation
● H336 — May cause drowsiness or dizziness
● H351 — Suspected of causing cancer
● H372 — Causes damage to organs through prolonged or repeated exposure (inhalation)