



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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SAFETY DATA SHEET (SDS)

Methyl Ethyl Ketone (MEK)

SDS

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

CAS **78-93-3** EC **201-159-0** SIGNAL WORD **DANGER**

GHS02

Flammable Liquid

GHS07

Harmful / Irritant

GHS08

Health Hazard

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

Product Name	Methyl Ethyl Ketone (MEK)
Product Type	Solvent / Industrial Chemical
Chemical Family	Ketone
CAS No.	78-93-3
EC No.	201-159-0
Intended Use	Industrial solvent for paints, coatings, adhesives, printing inks, 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-ethyl-ketone-mek
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 2; Skin Irrit. 2; Eye Irrit. 2; Acute Tox. 4 (Inhalation); STOT SE 3; STOT RE 1

Signal Word

DANGER

GHS Pictograms

GHS02 (Flammable Liquid) | GHS07 (Harmful / Irritant) | GHS08 (Health Hazard)

HAZARD STATEMENTS

- H225 — Highly flammable liquid and vapour
- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness
- H371 — May cause damage to organs (central nervous system) through prolonged or repeated exposure (inhalation)
- 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



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- 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.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P331 — Do NOT induce vomiting.
- 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 Ethyl Ketone (MEK)	78-93- 3	201- 159-0	100	Flam. Liq. 2; Skin Irrit. 2; Eye Irrit. 2; Acute Tox. 4 (Inhal.); STOT SE 3; STOT RE 1 — H225, H315, H319, H332, H335, H336, H371, H372

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air immediately. Keep comfortable for breathing. If symptoms persist, call a POISON CENTER or 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 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 medical attention immediately.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. Do not give anything by mouth to an unconscious



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person.

Note to Physician

Treat symptomatically based on exposure route and product hazards. Aspiration hazard if vomiting occurs; maintain airway. CNS depression may occur with significant inhalation exposure.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical powder, carbon dioxide (CO₂), alcohol-resistant foam, or fine water spray. Use media appropriate to surrounding fire conditions.

Unsuitable Media

High-pressure water jet directed at the liquid (may spread fire).

Specific Hazards

Highly flammable liquid and vapour. Flammable vapours may form explosive mixtures with air, travel to distant ignition sources and flash back. Containers may rupture when heated. Combustion produces carbon monoxide, carbon dioxide, and irritating or toxic fumes.

Protective Equipment

Wear full protective clothing and self-contained breathing apparatus (SCBA). Do not enter fire area without full protective equipment.

Special Procedures

Evacuate non-essential personnel and isolate the hazard area. Cool fire-exposed containers with water spray from a safe distance. Prevent contaminated fire-fighting run-off from entering drains, sewers, or waterways. Use grounded/explosion-proof equipment near the fire area.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions

Isolate the area. Eliminate ignition sources (no flames, sparks, smoking). Use PPE specified in Section 8. Ensure adequate ventilation. Warn other workers of the hazard.

Environmental Precautions

Prevent entry into drains, sewers, soil, watercourses, and groundwater. Report spills to relevant environmental authorities if required.

Containment / Clean-up

Contain the spill with inert absorbent material (sand, vermiculite, dry earth). Collect material into labelled, compatible closed containers for disposal through an approved waste contractor. Clean residual contamination with water.



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Reference to Sections	See Section 8 for PPE; Section 13 for disposal; 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 inhalation of vapours. Eliminate all ignition sources. Use explosion-proof electrical and ventilating equipment. Bond and ground transfer equipment to prevent static discharge.
Hygiene	Wash hands thoroughly after handling. Remove contaminated clothing before re-use or disposal. Do not eat, drink, or smoke when using this product.
Storage Conditions	Store in original, tightly closed, compatible containers. Keep in a cool, dry, well-ventilated location away from direct sunlight and heat sources. Keep away from 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, and incompatible chemicals. Store locked up when not in use.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	MEK (CAS 78-93-3): OSHA PEL 200 ppm (590 mg/m ³) TWA; ACGIH TLV 200 ppm TWA, 300 ppm STEL; NIOSH REL 200 ppm TWA, 300 ppm STEL. India: refer to current Schedule for Permissible Limits under Factories Act / MSIHC Rules. Verify applicable local OELs before use.
Engineering Controls	Use closed handling systems or local exhaust ventilation to maintain vapour levels below OEL. Use explosion-proof ventilation equipment and grounding for flammable liquid handling. Provide emergency eyewash and safety shower where exposure may occur.
Respiratory Protection	If ventilation is inadequate or OEL may be exceeded, use a NIOSH/EN-approved respirator with organic vapour cartridge. Use SCBA for emergency or high-concentration exposures.



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Hand / Eye / Skin

Gloves: chemical-resistant nitrile, butyl rubber, or neoprene; select appropriate thickness and breakthrough time for the task.
Eyes/Face: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield where splash risk exists. Body: chemical-resistant clothing or apron, safety footwear. Use antistatic PPE where flammable vapours may be present.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless liquid
Odour	Acetone-like; moderately sharp, fragrant odour
Odour Threshold	Not established in reviewed public source
pH	Not applicable (pure organic solvent; not an aqueous solution)
Melting / Freezing Point	-86.7°C (-123.3°F) [NTP, 1992]
Boiling Point / Range	79.6°C (175.3°F) at 760 mmHg [NTP, 1992]
Flash Point	-9°C (16°F) closed cup [typical literature value; verify from supplier COA/SDS]
Auto-ignition Temperature	~515°C (~961°F) [USCG, 1999]
Flammability Limits	LEL: 1.8 vol% — UEL: 11.5 vol% (in air)
Vapour Pressure	77.5 mmHg at 20°C (68°F); 100 mmHg at 25°C (77°F) [NTP, 1992]
Vapour Density (air = 1)	2.42 [NTP, 1992] — heavier than air; can accumulate in low areas
Relative Density	0.805 at 20°C (water = 1)
Solubility in Water	≥ 100 mg/mL at 19°C (66°F) [NTP, 1992] — highly soluble
Log Pow (Partition Coeff.)	0.29 [reviewed literature value]
Evaporation Rate	See supplier SDS for grade-specific value (rapid relative to n-butyl acetate)
Viscosity	0.40 cP at 25°C
VOC Content	Assessed per applicable regional VOC regulations; confirm with supplier for specific grade

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Heat, open flames, sparks, direct sunlight, and other ignition sources. Avoid contamination and exposure to incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides), concentrated acids, halogens. Reactive with aluminium



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chloride (AlCl_3) under elevated temperature; not a concern under normal ambient blending or storage conditions.

Hazardous Decomposition	Carbon monoxide (CO), carbon dioxide (CO_2), and irritating or toxic fumes may be formed on combustion or thermal decomposition.
Hazardous Reactions	No hazardous polymerisation. Will not occur under normal conditions when stored and handled correctly.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD_{50} (rat, oral): 2,737 mg/kg [literature; Acute Tox. 5 threshold range]. Classification basis: see Section 2.
Acute Dermal Toxicity	Not classified for acute dermal toxicity based on available data. See supplier SDS for test data.
Acute Inhalation Toxicity	Classified Acute Tox. 4 (Inhalation) — H332. LC_{50} data: consult supplier SDS or ECHA dossier for numeric values.
Skin Irritation	Classified Skin Irrit. 2 — H315. Causes skin irritation on repeated or prolonged contact.
Eye Irritation	Classified Eye Irrit. 2 — H319. Causes serious eye irritation.
Sensitisation	Not classified as a skin or respiratory sensitiser based on available data.
Carcinogenicity	Not classified as a carcinogen by IARC, NTP, OSHA, or ACGIH based on current data.
Mutagenicity	Not classified as a mutagen based on available in vitro and in vivo data. Consult supplier SDS for test details.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No aquatic hazard classification identified in Section 2 from reviewed data. Acute $\text{LC}_{50}/\text{EC}_{50}$ data available in ECHA dossier; consult for registration or export requirements. Avoid release to water.
Persistence / Degradability	MEK is readily biodegradable under aerobic conditions (literature). Verify with supplier or ECHA data for specific grade.
Bioaccumulation	Log Pow 0.29 — low bioaccumulation potential. BCF not expected to be significant.
Mobility in Soil	Highly water-soluble; mobile in soil and groundwater. Prevent release to soil and drainage systems.



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Other Adverse Effects

Avoid uncontrolled release to the environment. Manage under applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product

Dispose of contents through an authorised hazardous waste contractor in accordance with local, state, and national regulations. Do not pour down drains or into watercourses.

Contaminated Packaging

Empty containers may retain residues and flammable vapour; handle as hazardous until cleaned or decontaminated. Dispose of in accordance with local regulations.

Indian Regulations

Classify and dispose of as hazardous waste in compliance with Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, and applicable State Pollution Control Board requirements.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1193	UN 1193	UN 1193
Proper Shipping Name	ETHYL METHYL KETONE	ETHYL METHYL KETONE	ETHYL METHYL KETONE
Class	3	3	3
Packing Group	II	II	II
Marine Pollutant	No	No	N/A

UN-certified packaging required. Drums must be labelled with Class 3 placard, UN 1193, PG II, and proper shipping name. Verify current ADR/IMDG/IATA requirements and carrier rules before shipment. EmS (IMDG): F-E, S-D.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP

Classified and labelled according to EU CLP Regulation (EC) No. 1272/2008 as stated in Section 2. Subject to REACH Regulation (EC) No. 1907/2006. Observe applicable VOC and workplace chemical directives.

OSHA (USA)

Prepared in OSHA HCS / HazCom 2012 aligned 16-section SDS format. MEK listed as a hazardous chemical under OSHA HCS. Check TSCA inventory status before US import or distribution.



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India	Observe applicable requirements under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 (as amended); Factories Act; Hazardous Waste Rules; and State Pollution Control Board notifications.
Other Jurisdictions	Canada WHMIS 2015/HPR: classify and label under WHMIS using Section 2 classification; bilingual SDS/label may be required. China: apply GB/T SDS and classification requirements where marketed. Australia (AICS): verify inventory status before export or import. Middle East/GCC: observe applicable GHS-aligned local requirements. Final market placement requires confirmation of local OELs, inventory status, transport class, waste codes, and 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)
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
- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness
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