



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)

Ethyl Acetate *SDS*

CAS **141-78-6** EC **205-500-4** SIGNAL WORD **DANGER**

REV 3.1

29 JULY 2026

GHS REV.11 (2025)

GHS02

Flammable Liquid

GHS07

Harmful / Irritant

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

Product Name	Ethyl Acetate
Product Type	Ethyl Acetate — solvent / industrial chemical
Chemical Family	Ester
CAS No.	141-78-6
EC No.	205-500-4
Intended Use	Industrial / professional use as solvent in paints, coatings, adhesives, printing inks, pharmaceuticals, 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/ethyl-acetate
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; Acute Tox. 4 (inhalation)

Signal Word DANGER



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GHS Pictograms

GHS02 (Flammable Liquid) | GHS07 (Harmful / Irritant)

HAZARD STATEMENTS

- H225 — Highly flammable liquid and vapour
- H319 — Causes serious eye irritation
- H336 — May cause drowsiness or dizziness
- H320 — Causes eye irritation
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H370 — Causes damage to organs

PRECAUTIONARY — PREVENTION

- P210 — Keep away from heat, hot surfaces, sparks, open flames. No smoking.
- 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.
- 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.



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- 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
Ethyl Acetate	141-78-6	205-500-4	100	Flam. Liq. 2 (H225); Eye Irrit. 2 (H319); STOT SE 3 (H336); Acute Tox. 4 (H332)

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air immediately. Keep at rest in a position comfortable for breathing. If breathing is difficult or does not recover promptly, seek medical attention.
Skin Contact	Remove contaminated clothing. 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. Continue rinsing. Seek immediate medical attention.
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice immediately.
Note to Physician	Treat symptomatically based on exposure route and product hazards. CNS depressant effects may occur at high vapour concentrations.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical powder, CO ₂ , foam, or water spray/mist. Alcohol-resistant foam preferred for large spills.
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Unsuitable Media	Do not use a direct high-pressure water jet — may spread burning liquid.
Specific Hazards	Highly flammable liquid and vapour. Vapours are heavier than air and may travel to remote ignition sources and flash back. Containers may rupture or explode when heated. Combustion produces carbon oxides and irritating fumes.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA) independent of ambient air.
Special Procedures	Evacuate non-essential personnel. Cool fire-exposed containers with water spray. Prevent contaminated fire-fighting run-off from entering drains and waterways. Use grounded/explosion-proof equipment.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate all ignition sources. Wear appropriate PPE as specified in Section 8. Ensure adequate ventilation. Keep unnecessary personnel away from the area.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. If environmental release occurs, inform relevant authorities.
Containment / Clean-up	Contain spill with sand, earth or inert absorbent material. Collect material into labelled, compatible, sealed containers for disposal through an approved waste contractor. Flush area with water after collection. Avoid generating vapours.
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 only in well-ventilated areas or with local exhaust ventilation. Keep away from heat, sparks, and open flames. Use explosion-proof equipment and non-sparking tools. Bond and earth containers when transferring. Avoid skin and eye contact; do not breathe vapours.
Hygiene	Wash hands 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 (steel, aluminium, or approved plastic). Inspect containers regularly for



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	leakage or damage. Keep away from heat and ignition sources.
Storage Temperature	Ambient (below 30 °C preferred). Do not expose to direct sunlight or heat sources.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids, halogens, and strong alkalis. Reactive with aluminium chloride under elevated temperature.
Segregation	Segregate from food, drink, animal feed, oxidisers, and incompatible chemicals. Store in a dedicated flammable liquid store.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Ethyl Acetate (CAS 141-78-6): OSHA PEL 400 ppm (8h TWA); ACGIH TLV 400 ppm (8h TWA); NIOSH REL 400 ppm (10h TWA). Verify applicable local/national OEL before use. India: Refer to OSHA/NIOSH guidance or supplier SDS for in-country limit where not formally gazetted.
Engineering Controls	Use closed handling systems or local exhaust ventilation to control vapour levels below the OEL. Use explosion-proof electrical, ventilating, and lighting equipment. Ground/bond containers. Provide emergency eyewash and safety shower near handling areas.
Respiratory Protection	Where vapour concentrations may exceed the OEL, use a NIOSH/EN-approved respirator with organic vapour cartridge. Use SCBA for emergency situations or when oxygen deficiency is possible.
Hand / Eye / Skin	Gloves: chemical-resistant nitrile, butyl rubber, or neoprene (select for breakthrough time); inspect before use. Eyes: chemical splash goggles (EN 166 / ANSI Z87.1); add face shield where splash risk exists. Skin: chemical-resistant apron, safety footwear, and antistatic clothing where flammable vapours may occur.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless, volatile liquid
Odour	Characteristic fruity (pineapple-like) ether odour
Odour Threshold	Not established; characteristic odour detectable at low concentrations
pH	Not applicable (non-aqueous liquid)



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Melting / Freezing Point	–83.6 °C (–118.5 °F) [NTP, 1992]
Boiling Point / Range	77.1 °C (171 °F) at 760 mmHg [NTP, 1992]
Flash Point	–4 °C (25 °F) closed cup [literature value; verify with supplier CoA]
Auto-ignition Temperature	427 °C (800 °F) [USCG, 1999]
Flammability Limits	LEL: 2.0 vol% — UEL: 11.5 vol% [literature; verify with supplier]
Vapour Pressure	73 mmHg at 20 °C (68 °F); 100 mmHg at 27 °C (81 °F) [NTP, 1992]
Vapour Density (air = 1)	3.04 — heavier than air; will sink and accumulate in low areas
Relative Density	0.902 at 20 °C (68 °F) [USCG, 1999] — less dense than water; will float
Solubility in Water	~87 mg/mL at 20 °C (partially miscible; solubility decreases with temperature)
Log Pow (Partition Coeff.)	0.73 [peer-reviewed literature]
Evaporation Rate	Fast; higher than n-butyl acetate (reference = 1)
Viscosity	0.423 mPa·s at 25 °C
VOC Content	100% VOC (neat solvent); assess per applicable regional VOC regulations

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Heat, ignition sources (sparks, open flames, hot surfaces), direct sunlight, contamination, and contact with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride (AlCl ₃) under elevated temperature. Strong alkalis may cause hydrolysis.
Hazardous Decomposition	Carbon monoxide (CO) and carbon dioxide (CO ₂) in fire. May also produce acetic acid and ethanol vapours under thermal decomposition.
Hazardous Reactions	No hazardous reactions under normal storage and handling. Will not polymerise under normal conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD ₅₀ (rat, oral): ~5,620 mg/kg. Low acute oral toxicity; classified Acute Tox. 5 or not classified by some authorities. Verify with supplier SDS.
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Acute Dermal Toxicity	LD ₅₀ (rabbit, dermal): >18,000 mg/kg. Not classified for acute dermal toxicity.
Acute Inhalation Toxicity	LC ₅₀ (rat, 4 h): ~1,600 ppm vapour. Classified Acute Tox. 4 inhalation (H332) — Harmful if inhaled at high vapour concentrations.
Skin Irritation	May cause mild to moderate skin irritation upon prolonged or repeated contact. Classified skin irritant.
Eye Irritation	Causes serious eye irritation (H319). Vapours may also cause eye irritation (H320).
Sensitisation	Not classified as a skin or respiratory sensitiser based on available data.
Carcinogenicity	Not classified as carcinogenic. Not listed by IARC, NTP, or ACGIH as a known or probable human carcinogen.
Mutagenicity	Not classified as mutagenic based on available in vitro and in vivo data.
STOT — Single Exposure	Classified STOT SE 3 (H336): May cause drowsiness or dizziness (narcotic effects at high vapour concentrations). Also H335: May cause respiratory irritation.
STOT — Repeated Exposure	H370 listed in source (Causes damage to organs). Verify classification basis with supplier. Not universally classified for STOT RE at standard grades.
Note	Numeric endpoint data should be confirmed with supplier CoA and primary toxicological references before regulatory submission.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Acute: LC ₅₀ (fish, 96 h): ~230 mg/L. EC ₅₀ (Daphnia, 48 h): ~717 mg/L. Not classified for acute or chronic aquatic toxicity at standard thresholds, but avoid release to water. Verify with supplier.
Persistence / Degradability	Readily biodegradable under aerobic conditions (BOD ₅ /COD ratio >0.6 reported in literature). Not expected to persist in the environment.
Bioaccumulation	Log Pow = 0.73 — low bioaccumulation potential. BCF estimated to be low.
Mobility in Soil	Moderately soluble in water; may leach into groundwater. High vapour pressure facilitates volatilisation from soil surface. Prevent release to soil and groundwater.



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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 contents through an authorised hazardous waste contractor in accordance with local, state, and national regulations. Do not pour into drains, sewers, or waterways.
Contaminated Packaging	Empty containers may retain flammable vapours and product residues; handle as hazardous waste until cleaned, decontaminated, or disposed of through an approved route. Do not reuse unless properly reconditioned.
Indian Regulations	Handle and dispose as per Hazardous Wastes (Management, Handling and Transboundary Movement) Rules 2016 (as amended) under the Environment Protection Act 1986. Follow applicable CPCB and SPCB guidelines and obtain required consents.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1173	UN 1173	UN 1173
Proper Shipping Name	ETHYL ACETATE	ETHYL ACETATE	ETHYL ACETATE
Class	3 (Flammable Liquid)	3 (Flammable Liquid)	3 (Flammable Liquid)
Packing Group	II	II	II
Marine Pollutant	No	No	N/A

Packaging must be UN-certified and appropriate to the product. Drum must be labelled with Class 3 placard, UN 1173, PG II, and product name. EmS (IMDG): F-E, S-D. Verify current ADR, IMDG, and IATA regulations and carrier requirements before each shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Subject to REACH Regulation (EC) No 1907/2006. Classified and labelled under CLP Regulation (EC) No 1272/2008. Observe applicable workplace chemical, VOC, and environmental requirements. Ethyl Acetate is on the ECHA substance database (EC 205-500-4).
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OSHA (USA)	Prepared in OSHA HCS / HazCom-aligned 16-section SDS format. Ethyl Acetate is on the TSCA Chemical Substance Inventory. Verify SNUR status before US import or distribution.
India	Observe applicable MSIHC Rules 1989 (as amended), Factories Act, Environment Protection Act 1986, Hazardous Waste Rules 2016, Motor Vehicles Act (transport), and CPCB/SPCB pollution control requirements. IEC required for import.
Canada WHMIS / HPR	Classify and label under WHMIS 2015 / HPR using Section 2 classification. Canadian sale may require bilingual SDS/label and full ingredient disclosure.
Other Jurisdictions	Use applicable GB/T SDS and classification requirements for China. Verify AICS inventory status for Australia. Observe applicable GHS-aligned local requirements for GCC / Middle East markets.
Regulatory Scope Limitation	Final market placement requires confirmation of inventory status, local OELs, transport class, waste code, and product restrictions in the target jurisdiction.

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
- H320 — Causes eye irritation
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness
- H370 — Causes damage to organs