



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)

Acetonitrile *SDS*

REV 3.1

29 JULY 2026

GHS REV.11 (2025)

CAS 75-05-8 EC 200-835-2 SIGNAL WORD **DANGER**

GHS02

Flammable Liquid

GHS07

Harmful / Irritant

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

Product Name	Acetonitrile
Product Type	Nitrile solvent
Chemical Family	Nitrile
CAS No.	75-05-8
EC No.	200-835-2
Intended Use	Polar aprotic solvent for laboratory and industrial processing.
Restrictions on Use	Industrial / professional use only.
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/acetonitrile
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 2 (H225); Acute Tox. 4 (H302, H312, H332); Eye Irrit. 2 (H319)

Signal Word	DANGER
GHS Pictograms	GHS02 (Flame) GHS07 (Exclamation Mark)

HAZARD STATEMENTS



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- H225 — Highly flammable liquid and vapour
- H302 — Harmful if swallowed
- H312 — Harmful in contact with skin
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled

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.
- 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
Acetonitrile	75-05-8	200-835-2	100	Flam. Liq. 2; Acute Tox. 4; Eye Irrit. 2

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Move exposed person to fresh air immediately. If breathing is difficult, administer oxygen. Seek medical attention if symptoms persist.
Skin Contact	Remove contaminated clothing immediately. Wash affected skin thoroughly with soap and water for at least 15 minutes. 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. Continue rinsing. Seek immediate medical attention.
Ingestion	Rinse mouth. 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. Acetonitrile can be metabolised to cyanide; consider cyanide antidote protocol if significant exposure is confirmed.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Alcohol-resistant foam, dry chemical, carbon dioxide (CO ₂), or water fog.
Unsuitable Media	Direct high-pressure water jet (may spread burning liquid).
Specific Hazards	Flammable vapours may form explosive mixtures with air and travel to ignition sources and flash back. Containers may rupture when heated. Toxic fumes (HCN, NO _x , carbon oxides) may be produced in fire.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA).
Special Procedures	Evacuate non-essential personnel. Use explosion-proof and grounded equipment. Prevent contaminated fire-fighting run-off



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from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate all ignition sources. Ventilate area. Wear appropriate PPE (see Section 8). Use non-sparking tools. Keep unnecessary personnel away.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Notify authorities if significant release to environment occurs.
Containment / Clean-up	Absorb with inert material (vermiculite, dry sand). Collect into labelled, compatible containers for disposal through an approved waste contractor. Do not flush to drain.
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 closed transfer systems and local exhaust ventilation. Ground/bond containers. Keep away from heat, sparks, open flames and oxidisers. Use explosion-proof equipment.
Hygiene	Wash hands thoroughly after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage.
Storage Temperature	Ambient (below 30°C preferred); keep away from direct sunlight and heat sources.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids, halogens. Reactive with aluminium chloride at elevated temperature.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals. Store locked up.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Acetonitrile (CAS 75-05-8): ACGIH TLV-TWA 40 ppm (8h); ACGIH STEL 60 ppm (15 min). OSHA PEL: none established (use ACGIH as
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guidance). EU IOELV: 40 ppm TWA / 60 ppm STEL. Verify applicable local / Indian OEL with regulatory authority.

Engineering Controls	Use closed handling systems and local exhaust ventilation for vapour/mist control. Use explosion-proof ventilation and earthing/bonding for flammable liquid operations.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved respirator with organic vapour cartridge. Use SCBA for emergencies or high-concentration exposure.
Hand / Eye / Skin	Gloves: chemical-resistant (nitrile, butyl rubber, or neoprene); select appropriate breakthrough time. Eyes: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield for splash risk. Body: chemical-resistant clothing/apron, safety footwear; antistatic PPE where flammable vapours may occur. Provide eyewash and safety shower at point of use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colourless liquid
Odour	Ether-like odour
Odour Threshold	Not established
pH	Not applicable (pure, non-aqueous liquid)
Melting / Freezing Point	-45 °C
Boiling Point / Range	81.6 °C
Flash Point	2 °C (closed cup)
Auto-ignition Temperature	524 °C
Flammability Limits	LEL 3.0% v/v UEL 16% v/v
Vapour Pressure	73 mmHg at 20 °C
Vapour Density (air = 1)	1.4
Relative Density	0.78 at 20 °C
Solubility in Water	Miscible
Log Pow (Partition Coeff.)	-0.34
Evaporation Rate	Fast (relative to butyl acetate)
Viscosity	Low viscosity liquid
VOC Content	100%



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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, ignition sources, contamination and incompatible materials. Avoid exposure to strong light or UV.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Reactive with aluminium chloride (AlCl_3) at elevated temperature — not a concern in ambient blending or storage.
Hazardous Decomposition	Carbon oxides, hydrogen cyanide (HCN) and irritating or toxic fumes may be formed in fire or high-temperature decomposition.
Hazardous Reactions	No hazardous reactions under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Harmful if swallowed (H302). Acute Tox. 4 oral. LD50 (rat, oral): approximately 3,800 mg/kg (verify with supplier test data).
Acute Dermal Toxicity	Harmful in contact with skin (H312). Acute Tox. 4 dermal. LD50 (rabbit, dermal): data requires supplier/test confirmation.
Acute Inhalation Toxicity	Harmful if inhaled (H332). Acute Tox. 4 inhalation. LC50 data requires supplier/test confirmation.
Skin Irritation	Not classified as a skin irritant based on reviewed data. Prolonged or repeated contact may cause defatting and mild irritation.
Eye Irritation	Causes serious eye irritation (H319). Eye Irrit. 2A. Vapour is irritating at elevated concentrations.
Sensitisation	Not classified as a skin or respiratory sensitizer based on reviewed data.
Carcinogenicity	Not classified as carcinogenic. Not listed by IARC, NTP or OSHA as a carcinogen.
Mutagenicity	Not classified as a mutagen based on reviewed data. Endpoint-specific numeric data requires supplier confirmation.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute or chronic aquatic classification identified in Section 2 from reviewed data. Avoid release to surface water. Obtain
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	supplier/ecotoxicity data if required for registration or export.
Persistence / Degradability	Acetonitrile is readily biodegradable under aerobic conditions. Do not assume ready biodegradability without verified test data for specific grades.
Bioaccumulation	Low bioaccumulation potential (log Pow –0.34). Not expected to bioaccumulate significantly.
Mobility in Soil	Miscible with water; mobile in soil and groundwater. Prevent release to soil and groundwater.
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 pour into drains or watercourses.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous until professionally cleaned or disposed of in accordance with local regulations.
Indian Regulations	Follow 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 1648	UN 1648	UN 1648
Proper Shipping Name	ACETONITRILE	ACETONITRILE	ACETONITRILE
Class	3	3	3
Packing Group	II	II	II
Marine Pollutant	No	No	—
Tunnel Restriction	D/E	—	—
EmS (Sea)	—	F–E, S–D	—

Packaging: UN-certified container appropriate to the product. UN-certified drum required for international transport. Drum must be labelled with Class 3 placard, UN 1648, PG II, and product name. Verify current carrier rules before shipment.



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SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH and CLP requirements where applicable. Classified and labelled according to the GHS/CLP classification listed in Section 2.
OSHA (USA)	Prepared in OSHA HCS/HazCom aligned 16-section SDS format. Verify TSCA inventory / SNUR status before US import or distribution.
India	Observe applicable Indian MSIHC Rules, Factories Act, Environment Protection Act, Hazardous Waste Rules and State Pollution Control Board requirements.
Other Jurisdictions	Canada: Classify/label under WHMIS 2015/HPR using Section 2 classification; bilingual SDS/label and ingredient disclosure may be required. China: apply applicable GB/T SDS and classification requirements where marketed. GCC/Middle East and Australia (AICS): verify local inventory status and requirements before export or import. Final market placement requires confirmation of inventory status, local OELs, transport class, waste code 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
- H302 — Harmful if swallowed
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