



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)

2-Ethylhexyl Acrylate *SDS*

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

CAS 103-11-7 EC 203-080-7 SIGNAL WORD DANGER

GHS07

Harmful / Irritant

GHS09

Environmental Hazard

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

Product Name	2-Ethylhexyl Acrylate
Product Type	Acrylate monomer
Chemical Family	Acrylic ester
CAS No.	103-11-7
EC No.	203-080-7
Intended Use	Industrial / professional use as listed on the SPC product page.
Restrictions on Use	Industrial / professional use only. Confirm grade suitability before regulated or consumer 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/2-ethylhexyl-acrylate
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 4; Skin Irrit. 2; Skin Sens. 1; STOT SE 3; Aquatic Chronic 2

Signal Word WARNING



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GHS Pictograms	GHS07 (Harmful / Irritant) GHS09 (Environmental Hazard)
Other Hazard Classes	Not classified for unlisted hazard classes based on reviewed public/source data.

HAZARD STATEMENTS

- H227 — Combustible liquid
- H315 — Causes skin irritation
- H317 — May cause an allergic skin reaction
- H335 — May cause respiratory irritation
- H411 — Toxic to aquatic life with long lasting effects

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
2-Ethylhexyl acrylate, inhibited	103-11-7	203-080-≥99 7		Skin Irrit. 2; Skin Sens. 1; STOT SE 3; Aquatic Chronic 2

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Move to fresh air. If symptoms persist, obtain medical attention. Do not induce vomiting where aspiration hazard is possible.
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

Suitable Extinguishing Media	Use alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Media	Direct high-pressure water jet where it may spread the material.
Specific Hazards	Vapours may form explosive mixtures. Containers may rupture when heated. Combustible liquid; cool containers with water spray in fire.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA).



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Special Procedures	Evacuate non-essential personnel. Prevent contaminated run-off from entering drains and waterways.
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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate ignition sources, ventilate area, bond/ground equipment. Wear appropriate PPE (see Section 8).
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses.
Containment / Clean-up	Absorb with inert material. Collect 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

Handling Precautions	Use explosion-proof ventilation and grounded equipment. Keep away from heat, sparks, open flames and oxidisers. Store inhibited; avoid polymerisation.
Hygiene	Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using.
Storage Conditions	Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage.
Storage Temperature	Store at ambient temperature (below 30°C) unless supplier instructions specify otherwise. Protect from direct sunlight.
Incompatible Materials	Strong oxidisers and product-specific incompatible substances; see supplier SDS before use.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	2-Ethylhexyl acrylate (CAS 103-11-7): No universally established OEL. Use verified local OEL if established; otherwise apply ALARA / good industrial hygiene practice. Confirm OSHA/NIOSH/ACGIH/EU/India OEL before use.
Engineering Controls	Use closed handling systems and local exhaust ventilation for vapour/mist control. Use explosion-proof ventilation and grounding for flammable liquid handling.



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Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved respirator with organic vapour cartridge. Use SCBA for emergencies or confined-space entry.
Hand / Eye / Skin	Hands: chemical-resistant gloves (nitrile, butyl, neoprene, PVC or laminate); select breakthrough-time rated for this product. Eyes/Face: 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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colourless liquid.
Odour	Acrylate ester odour.
Odour Threshold	Not established.
pH	Not applicable (neat liquid). For aqueous solutions, verify from supplier COA/SDS.
Melting / Freezing Point	Approx. -90°C (literature value; verify from supplier specification)
Boiling Point / Range	Approx. 214–216°C at 1013 hPa (literature; verify from supplier specification)
Flash Point	Approx. 75–82°C (closed cup) — corrected from source (see flags)
Auto-ignition Temperature	Approx. 300°C (literature value; verify from supplier specification)
Flammability Limits	LEL: approx. 0.8% v/v; UEL: not well established — verify from supplier specification.
Vapour Pressure	Approx. 0.3 hPa at 20°C (literature value; verify from supplier specification)
Vapour Density (air = 1)	Approx. 6.4 (MW 184.3 vs air 29) — corrected from source (see flags)
Relative Density	Approx. 0.88 g/cm ³ at 20°C — corrected from source (see flags)
Solubility in Water	Slightly soluble — corrected from source (see flags)
Log Pow (Partition Coeff.)	Approx. 4.11–4.74 (literature; verify from supplier specification)
Evaporation Rate	Low (higher boiling point than reference solvent n-butyl acetate); see supplier specification.
Viscosity	See supplier specification.
VOC Content	Assess under applicable local VOC rules; product is a VOC as supplied.



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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions when stored with inhibitor.
Conditions to Avoid	Avoid heat, ignition sources, contamination and incompatible materials. Avoid polymerisation by ensuring inhibitor is present.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). 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 conditions. Will not occur under normal conditions when stored and handled correctly with inhibitor present.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	May irritate the gastrointestinal tract. LD50 (rat, oral): not established from source; endpoint-specific data requires supplier/test confirmation.
Acute Dermal Toxicity	May irritate skin; skin sensitiser (H317). LD50 (rabbit, dermal): not established from source; endpoint-specific data requires supplier/test confirmation.
Acute Inhalation Toxicity	Solvent vapour can affect the central nervous system. LC50/LCLo: not established from source; endpoint-specific data requires supplier/test confirmation.
Skin Irritation	Causes skin irritation (H315). Classification basis: GHS Skin Irrit. 2.
Eye Irritation	May cause eye irritation. Not separately classified in Section 2; treat with care — see First Aid Section 4.
Sensitisation	May cause an allergic skin reaction (H317). Classification basis: GHS Skin Sens. 1.
Carcinogenicity	Not classified. Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients.
Mutagenicity	Not classified. Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients.



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SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Classified Aquatic Chronic 2 (H411). Prevent release; obtain LC50/EC50/NOEC values from supplier/ECHA/PubChem where required.
Persistence / Degradability	Use supplier, ECHA or PubChem data where available. If not verified, do not assume ready biodegradability.
Bioaccumulation	Log Pow approx. 4.11–4.74 indicates potential for bioaccumulation. Use verified log Kow/BCF data from supplier where available.
Mobility in Soil	Slightly soluble in water; may adsorb to soil. Assess from solubility, adsorption potential and product form. 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 regulations.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous until cleaned or disposed of through an authorised route.
Indian Regulations	Follow applicable Indian hazardous waste rules (Hazardous and Other Wastes Management and Transboundary Movement Rules), applicable state pollution-control board requirements, and MSIHC Rules.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	Not regulated (verify)	Not regulated (verify)	Not regulated (verify)
Proper Shipping Name	Verify against ADR/IMDG/IATA criteria	Verify against ADR/IMDG/IATA criteria	Verify against IATA criteria
Class	Verify	Verify	Verify
Packing Group	Verify	Verify	Verify



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PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
Marine Pollutant	Likely Yes (aquatic hazard present) — confirm from IMDG/supplier data	Likely Yes — confirm from IMDG/supplier data	Not applicable

DG status requires grade verification against ADR/IMDG/IATA criteria. Do not ship as not regulated until verified. UN-certified drum required for international transport. Aquatic hazard present; confirm marine pollutant status from IMDG/supplier data. Verify current carrier rules before shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH and CLP requirements where applicable. Classified and labelled according to the product-specific GHS/CLP classification in Section 2. Observe applicable workplace chemical, VOC and environmental requirements.
OSHA (USA)	Prepared in OSHA HCS/HazCom aligned 16-section SDS format. Verify TSCA inventory/SNUR status before US import or distribution; mixture/UVCB status may require supplier confirmation.
India	Observe applicable Indian MSIHC Rules, workplace chemical safety, storage, transport, pollution-control and hazardous-waste requirements.
Other Jurisdictions	China: Use applicable GB/T SDS and classification requirements where marketed. GCC/Middle East: Observe applicable GHS-aligned local requirements. Canada WHMIS/HPR: Classify/label under WHMIS 2015/HPR using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. Australia (AICS): Check inventory status 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



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responsible for safe use, handling and compliance.

FULL TEXT OF H-STATEMENTS

- H227 — Combustible liquid
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 - H335 — May cause respiratory irritation
 - H411 — Toxic to aquatic life with long lasting effects
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