



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)

Octanol (2EH) *SDS*

CAS 104-76-7 EC 203-234-3 SIGNAL WORD DANGER

GHS07

Harmful / Irritant

GHS08

Health Hazard

REV 3.1

29 JULY 2026

GHS REV.11 (2025)

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

Product Name	Octanol (2EH)
Product Type	2-Ethylhexanol — industrial chemical
Chemical Family	Aliphatic alcohol (branched C8)
CAS No.	104-76-7
EC No.	203-234-3
Intended Use	Industrial / professional use as described on the SPC product page. Solvent, plasticiser intermediate, fragrance intermediate, 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/octanol-2eh
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

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

WARNING

GHS Pictograms

GHS07 (Harmful / Irritant) | GHS08 (Health Hazard)

HAZARD STATEMENTS

- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness
- H361 — Suspected of damaging fertility or the unborn child
- H227 — Combustible liquid

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.
- 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.



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- 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
2-Ethylhexanol (Octanol 2EH)	104-76-203-7	203-234-3	≥ 99	Skin Irrit. 2 (H315); Eye Irrit. 2 (H319); Acute Tox. 4 inhal. (H332); STOT SE 3 (H335, H336); Repr. 2 (H361); Flam. Liq. 4 (H227)

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, 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 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. Do NOT induce vomiting. Seek immediate medical advice / contact a POISON CENTER. Do not give anything by mouth to an unconscious person.
Note to Physician	Treat symptomatically based on exposure route and product hazards. No specific antidote. Supportive care for respiratory, skin and eye exposure.



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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical powder, CO ₂ , foam, or water spray. Use media appropriate for surrounding fire.
Unsuitable Media	High-pressure direct water jet — may spread the material.
Specific Hazards	Combustible liquid (Flash Point ~81°C). Fire may produce carbon monoxide, carbon dioxide and irritating vapours. Containers may rupture when exposed to heat. Vapours heavier than air may accumulate in low areas.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). EN 137 / NFPA 1981 compliant.
Special Procedures	Evacuate non-essential personnel. Cool fire-exposed containers with water spray. Prevent contaminated fire-fighting run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate spill area. Eliminate ignition sources. Wear PPE as specified in Section 8. Avoid inhalation of vapours. Ensure adequate ventilation.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Notify relevant authorities if significant environmental release occurs.
Containment / Clean-up	Contain spill with sand, earth or inert absorbent material. Collect material into labelled, sealed, 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, Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use with adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours or mist. Keep away from heat, sparks and open flame. Bond and ground containers when transferring to avoid static discharge.
Hygiene	Wash hands thoroughly after handling. Remove and wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.



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Storage Conditions	Store in original, tightly closed, compatible containers (steel drum, HDPE) in a cool, dry, well-ventilated area away from ignition sources.
Storage Temperature	Ambient temperature (below 30°C preferred). Avoid freezing (Melting Point –76°C; not a practical concern at ambient).
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides); concentrated acids; halogens. See Section 10.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	No universally established OEL for 2-ethylhexanol (CAS 104-76-7) in Indian/OSHA/ACGIH lists as of 2026. Apply ALARA / good industrial hygiene practice. Verify with supplier SDS and regional authority (NIOSH, ACGIH, EU SCOEL) for current values.
Engineering Controls	Use local exhaust ventilation / closed handling system to control vapour and mist. Use explosion-proof ventilation and earthing for flammable atmosphere. Provide eyewash stations and safety shower nearby.
Respiratory Protection	If ventilation is inadequate: NIOSH/EN-approved organic vapour respirator (half-face or full-face). Use SCBA in confined spaces or emergencies.
Hand / Eye / Skin	Hands: chemical-resistant gloves (nitrile, butyl or neoprene; minimum 0.4 mm thickness — verify breakthrough time). Eyes: EN 166/ANSI Z87.1 chemical splash goggles; face shield for splash risk. Body: chemical-resistant apron/coverall and safety footwear; antistatic PPE where flammable vapours may be present.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless to pale yellow, clear liquid
Odour	Mild, oily, sweet, slightly floral odour reminiscent of rose
Odour Threshold	Not established
pH	Not applicable (neat liquid); not acidic or alkaline in normal use
Melting / Freezing Point	–76°C (–105°F) [NTP, 1992]
Boiling Point / Range	183–184°C (363–365°F at 760 mmHg) [NTP, 1992]
Flash Point	~81°C (178°F) closed cup [verified literature value for CAS 104-76-7]
Auto-ignition Temperature	~305°C (581°F) [USCG, 1999]



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Flammability Limits	Lower (LEL): ~0.88% v/v; Upper (UEL): ~9.7% v/v (indicative; verify with supplier)
Vapour Pressure	0.05 mmHg at 20°C (68°F); 0.13 mmHg at 25°C [NTP, 1992]
Vapour Density (air = 1)	4.49 [heavier than air; may accumulate in low areas]
Relative Density	0.834 g/cm ³ at 20°C (68°F) [less dense than water; will float]
Solubility in Water	Slightly soluble: < 1 mg/mL at 18°C (64°F) [NTP, 1992]
Log Pow (Partition Coeff.)	2.3–3.1 (literature range; central estimate ~3.0)
Evaporation Rate	< 1 (relative to n-butyl acetate = 1); slow evaporating
Viscosity	9.8 cP (mPa·s) at 20°C; ~12.0 mm ² /s (cSt) at 20°C
VOC Content	Assess per applicable regional VOC regulations; neat substance is a VOC

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Heat, open flames, ignition sources, contamination by incompatible materials.
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 monoxide (CO), carbon dioxide (CO ₂) and irritating/toxic organic vapours may be formed in fire or high-temperature decomposition.
Hazardous Reactions	No hazardous polymerisation. No known dangerous reactions under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD ₅₀ (rat, oral): ~2,049 mg/kg (moderate acute oral toxicity; basis for Acute Tox. 4 classification). Verify with supplier test data.
Acute Dermal Toxicity	LD ₅₀ (rabbit, dermal): > 2,000 mg/kg (relatively low dermal toxicity). Skin irritation classified Skin Irrit. 2 (H315).
Acute Inhalation Toxicity	LC ₅₀ (rat, 4h, vapour): > 3.3 mg/L (saturated atmosphere); classified Acute Tox. 4 — Harmful if inhaled (H332). Verify with supplier.
Skin Irritation	Classified Skin Irrit. 2 (H315) — causes skin irritation.
Eye Irritation	Classified Eye Irrit. 2 (H319) — causes serious eye irritation.



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Sensitisation	Not classified as a skin or respiratory sensitiser based on available data.
Carcinogenicity	Not classified as a carcinogen (IARC, NTP, ACGIH). Verify current assessments.
Mutagenicity	Not classified as mutagenic based on available in vitro/in vivo data. Ames test: negative (literature).

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	LC ₅₀ (fish, 96h): ~0.16–5 mg/L (range from literature; moderately toxic to aquatic organisms). EC ₅₀ (Daphnia, 48h): ~0.3 mg/L. No acute aquatic classification confirmed from reviewed Section 2 data; avoid release. Obtain supplier ecotoxicity data for registration or export.
Persistence / Degradability	Considered readily biodegradable (BOD ₅ /COD ratio > 0.6 in literature studies). Verify with supplier or ECHA data.
Bioaccumulation	Log Pow 2.3–3.1 suggests moderate bioaccumulation potential (BCF < 500 estimated). Not expected to be highly bioaccumulative.
Mobility in Soil	Low water solubility and moderate log Kow suggest limited mobility in soil. 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/waste through an authorised waste contractor in accordance with local regulations. Do not pour down drains or into watercourses.
Contaminated Packaging	Empty containers may retain residues and vapours; handle as hazardous until fully cleaned and inspected. Return to supplier or dispose through approved contractor.
Indian Regulations	Follow Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and applicable CPCB / State PCB requirements. Assign appropriate waste category before disposal.



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SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	Not regulated	Not regulated	Not regulated
Proper Shipping Name	Not regulated	Not regulated	Not regulated
Class	Not regulated	Not regulated	Not regulated
Packing Group	Not regulated	Not regulated	Not regulated
Marine Pollutant	N/A	No	N/A

2-Ethylhexanol (Flash Point ~81°C) does not meet the threshold for Class 3 Flammable Liquid under ADR/IMDG/IATA (Flash Point > 60°C closed cup for IMDG Packing Group III cut-off; ADR/IATA treat > 60°C as non-regulated for most modes). Verify current carrier and mode-specific rules before each shipment. Use UN-certified, compatible containers with appropriate product labelling for all transport.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Classified and labelled in accordance with EU CLP Regulation (EC) No 1272/2008. Substance listed on ECHA REACH inventory. Observe REACH registration, downstream user and communication obligations where applicable.
OSHA (USA)	Prepared in OSHA HCS/HazCom 2012-aligned 16-section SDS format. Verify TSCA inventory/SNUR status before US import or distribution.
India	Observe applicable rules under the Environment (Protection) Act 1986; Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016; Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 (MSIHC); and applicable State PCB requirements.
Other Jurisdictions	Canada: Classify and label under WHMIS 2015/HPR using Section 2 classification; Canadian sale may require bilingual SDS and ingredient disclosure. China: apply GB/T SDS and classification requirements where marketed. Australia: check AICS inventory status before export or import. GCC: observe applicable GHS-aligned local requirements. Verify regulatory scope for each market before placement.



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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

- H227 — Combustible liquid
- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness
- H361 — Suspected of damaging fertility or the unborn child (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)