

Material Safety Data Sheet (MSDS / SDS)

2-Ethylhexanol (2-EH)

SECTION 1: Identification

Product Name	2-Ethylhexanol (2-EH)
Synonyms	2-Ethylhexanol, 2-EH, Ethylhexanol, Octyl Alcohol (branched)
CAS No.	104-76-7
Recommended Use	Feedstock for DOP/DOTP plasticizer production; industrial solvent and chemical intermediate
Manufacturer / Supplier	Ochnology Solution Pvt. Ltd., B-153, Sector-4 Defence Colony, Dehradun, Uttarakhand, India - 248001
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SECTION 2: Hazard(s) Identification

GHS Classification: Acute Toxicity Category 4, Oral (H302); Skin Irritation Category 2 (H315); Eye Irritation Category 2 (H319); Specific Target Organ Toxicity - Single Exposure Category 3, Respiratory Irritation (H335); Aspiration Hazard Category 1 (H304)

Signal Word: Danger

Hazard Statements:

- H304 - May be fatal if swallowed and enters airways
- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H335 - May cause respiratory irritation

Precautionary Statements:

- P261 - Avoid breathing vapours
- P264 - Wash hands thoroughly after handling
- P271 - Use only outdoors or in a well-ventilated area

- P280 – Wear protective gloves/eye protection
- P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER/doctor
- P331 – Do NOT induce vomiting
- P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing
- P303+P361+P353 – IF ON SKIN: Remove/Take off immediately all contaminated clothing. Rinse skin with water

SECTION 3: Composition / Information on Ingredients

Component	CAS No.	Concentration (w/w)
2-Ethylhexanol	104-76-7	Min. 99.5%
Water / Aldehyde (residual)	–	< 0.5% (combined)

SECTION 4: First-Aid Measures

Eye Contact	Rinse immediately with plenty of water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.
Skin Contact	Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation persists.
Inhalation	Move to fresh air. If coughing or respiratory discomfort persists, seek medical attention.
Ingestion	Do NOT induce vomiting – significant aspiration hazard if this product enters the lungs. Rinse mouth with water. Seek medical attention immediately – call a poison centre.

SECTION 5: Fire-Fighting Measures

- Combustible liquid (flash point $\approx 73-75^{\circ}\text{C}$) – keep away from heat and strong ignition sources
- Suitable extinguishing media: dry chemical, CO₂, foam, water spray/fog
- Fire-fighters should wear SCBA in enclosed or heavily smoke-logged conditions

SECTION 6: Accidental Release Measures

- Eliminate ignition sources; ventilate the area
- Contain the spill and absorb with inert absorbent material; collect in suitable containers for disposal
- Prevent entry into drains, sewers or waterways
- Wear appropriate PPE (gloves, safety glasses) during clean-up

SECTION 7: Handling and Storage

- Keep away from heat, sparks, open flame and other ignition sources
- Avoid skin/eye contact and inhalation of vapours; use with adequate ventilation
- Store in a cool, dry, well-ventilated area away from strong oxidising agents
- Keep containers tightly closed to minimise vapour release and evaporation

SECTION 8: Exposure Controls / Personal Protection

Occupational Exposure Limits	ACGIH TLV: 20 ppm, 8-hr TWA for 2-ethylhexanol – confirm current jurisdiction-specific limit
Engineering Controls	Local exhaust ventilation where vapours may accumulate
Eye/Face Protection	Chemical splash goggles recommended – this product is an eye irritant
Hand Protection	Chemical-resistant gloves (nitrile) recommended
Respiratory Protection	Organic vapour cartridge respirator recommended if ventilation is inadequate

SECTION 9: Physical and Chemical Properties

Property	Unit	Value
Appearance	–	Colourless clear liquid
Odour	–	Mild, characteristic odour
Boiling Point	°C	184 – 186
Flash Point (Closed Cup)	°C	≈ 73 – 75
Density @ 20°C	g/cm ³	0.832 – 0.836
Solubility in Water	–	Slightly soluble

SECTION 10: Stability and Reactivity

- Stable under normal conditions of storage, handling and use
- Combustible – avoid heat and ignition sources
- Incompatible materials: strong oxidising agents, strong acids

SECTION 11: Toxicological Information

- Harmful if swallowed; significant aspiration hazard – may be fatal if it enters the lungs during ingestion or vomiting
- Causes skin and eye irritation on direct contact; may cause respiratory irritation
- Some regulatory reviews have examined reproductive/developmental toxicity signals for 2-ethylhexanol given its role as a phthalate-plasticizer precursor – buyers should consult current regulatory assessments for their specific jurisdiction
- Not classified as carcinogenic or mutagenic based on available information

SECTION 12: Ecological Information

- Moderately toxic to aquatic organisms based on available data
- Considered readily biodegradable
- Avoid release to waterways as general environmental good practice

SECTION 13: Disposal Considerations

- Dispose of product and packaging in accordance with local, state and national hazardous waste regulations
- Do not discharge to drains or waterways
- Use a licensed waste handler for bulk disposal

SECTION 14: Transport Information

UN Number	UN 1993 (or applicable Flammable Liquid, N.O.S. entry – confirm with carrier given flash point near classification threshold)
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (2-Ethylhexanol) – confirm exact entry per current classification
Transport Hazard Class	Class 3 (Flammable Liquid) or not regulated, depending on jurisdiction-specific flash point threshold interpretation – confirm with DG specialist
Packing Group	III (typical; confirm against current classification)
Environmental Hazards	Avoid release to aquatic environment

SECTION 15: Regulatory Information

- Widely listed on major chemical inventories (TSCA, REACH, ECL, etc.) as an existing/registered substance
- Buyers/importers should confirm import permits and flammable-liquid/DG handling regulations applicable to their specific jurisdiction, given the flash point sits close to common classification thresholds

SECTION 16: Other Information

Revision Date: 19 July 2026

This SDS has been compiled based on general industry data and knowledge for 2-Ethylhexanol products of this type as commercially supplied. It is intended as a general handling and safety guide and does not replace a batch-specific SDS from the manufacturing mill, which should be obtained and reviewed for each shipment where regulatory submission is required.

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