



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)

Linear Alkyl Benzene (LAB) *SDS*

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

CAS **67774-74-7** EC **267-051-0** SIGNAL WORD **DANGER**

GHS08

Health Hazard

GHS09

Environmental Hazard

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

Product Name	Linear Alkyl Benzene (LAB)
Product Type	Benzene, C10–C13 alkyl derivatives
Chemical Family	Alkyl aromatic hydrocarbon
CAS No.	67774-74-7
EC No.	267-051-0
Intended Use	Industrial intermediate; feedstock for linear alkyl benzene sulphonate (LABS) surfactant manufacture; industrial solvent and process chemical.
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/linear-alkyl-benzene-lab
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

Asp. Tox. 1 (H304); Aquatic Chronic 3 (H412). Not classified for other GHS hazard classes based on reviewed source data.

Signal Word

WARNING

GHS Pictograms

GHS08 (Health Hazard) | GHS09 (Environmental Hazard)

HAZARD STATEMENTS

- H304 — May be fatal if swallowed and enters airways
- H412 — Harmful 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
Benzene, C10–C13 alkyl derivatives (Linear Alkyl Benzene)	67774– 74–7	267– 051–O	~100	Asp. Tox. 1 (H304); Aquatic Chronic 3 (H412)

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Move to fresh air. If symptoms persist, seek medical attention. Do not induce vomiting where aspiration hazard is possible.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and water. 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 — aspiration hazard. Immediately call a POISON CENTER or doctor.
Note to Physician	Treat symptomatically based on exposure route. Aspiration into lungs may cause chemical pneumonitis; manage supportively.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Alcohol-resistant foam, dry chemical powder, or carbon dioxide (CO ₂). Cool fire-exposed containers with water spray.
Unsuitable Media	Direct high-pressure water jet — may spread burning liquid.
Specific Hazards	Vapours may form explosive mixtures with air. Containers may rupture when heated. Combustion produces carbon oxides and irritating fumes.



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Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA).
Special Procedures	Evacuate non-essential personnel. Prevent contaminated fire-fighting run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate ignition sources. Ventilate area. Bond/ground equipment. Wear appropriate PPE (see Section 8). Keep bystanders away.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Notify authorities if significant environmental release occurs.
Containment / Clean-up	Absorb spill with inert material (sand, vermiculite, dry earth). Collect into labelled containers for disposal through an approved waste contractor.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal, Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Avoid generation of mists and ingestion. Use in closed systems with local exhaust ventilation. Bond and ground transfer equipment to prevent static discharge.
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 regularly for leakage or damage. Keep away from ignition sources.
Storage Temperature	Ambient temperature unless supplier instructions specify otherwise.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride under elevated temperature.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	No specific OEL established for CAS 67774-74-7. Apply ALARA / good industrial hygiene practice. Verify local OEL (OSHA/NIOSH/ACGIH/EU/India) with supplier/regulatory authority.
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Engineering Controls	Closed handling systems and local exhaust ventilation for mist, vapour or aerosol. Use explosion-proof ventilation and earthing/bonding for flammable liquid handling.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved respirator with organic vapour cartridge. Use SCBA for emergencies or oxygen-deficient atmospheres.
Hand / Eye / Skin	Hands: Chemical-resistant gloves (nitrile, butyl, neoprene or PVC); select breakthrough time appropriate to task. Eyes: Chemical splash goggles (EN 166 / ANSI Z87.1); add face shield for splash risk. Body: Chemical-resistant apron/clothing and safety footwear. Use antistatic PPE where flammable vapours may occur. Provide eyewash and safety shower at work location.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colourless oily liquid.
Odour	Mild aromatic hydrocarbon odour.
Odour Threshold	Not established.
pH	Not applicable (non-aqueous liquid). For aqueous solutions, verify from supplier COA/SDS.
Melting / Freezing Point	Typically -15 to -5 °C (literature range for C10–C13 LAB); confirm with supplier specification.
Boiling Point / Range	Approximately 280–305 °C at 101.3 kPa (literature range for C10–C13 LAB). [FLAG: not provided in source SDS — value sourced from published literature; confirm with supplier COA.]
Flash Point	Typically ≥130 °C (closed cup). [Source value corrected from erroneous Boiling Point row — see correction notes.]
Auto-ignition Temperature	Not established in source. Literature values for similar alkyl benzenes: approximately 250–320 °C. Confirm with supplier.
Flammability Limits	Not established in source. Typical for heavy alkyl aromatics: LEL ~0.6 vol%, UEL ~7 vol%. Confirm with supplier.
Vapour Pressure	Very low at ambient temperature (consistent with high boiling point). [Source value corrected from erroneous Flammability Limits row.]
Vapour Density (air = 1)	Significantly greater than 1 (calculated MW ~218–246 g/mol; air = 29 g/mol). Vapour is heavier than air and may accumulate in low-lying areas.
Relative Density	Approximately 0.85–0.87 at 15 °C. [Source value corrected from erroneous Vapour Density row — see correction notes.]



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Solubility in Water	Insoluble. [Source value corrected from erroneous Relative Density row.]
Log Pow (Partition Coeff.)	Not established for supplied commercial grade. Literature log Kow for C10–C13 LAB: approximately 6–7 (highly lipophilic).
Evaporation Rate	Not established in source. Expected to be very low given high boiling point.
Viscosity	Low to moderate for a hydrocarbon liquid. Confirm viscosity grade with supplier specification.
VOC Content	Assess under applicable local VOC regulations (e.g. EU Directive 2004/42/EC, India Environment Protection Rules). Confirm with supplier.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Heat, ignition sources, open flames, contamination with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride (AlCl ₃) under elevated temperature may catalyse alkylation reactions – not a concern in ambient blending or storage.
Hazardous Decomposition	Carbon oxides (CO, CO ₂) and irritating or toxic fumes may be formed in fire or thermal decomposition.
Hazardous Reactions	No hazardous polymerisation. Will not occur under normal conditions when stored and handled correctly.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	No precise LD50 data in source. Classified Asp. Tox. 1 (H304): may be fatal if swallowed and enters airways due to low viscosity and aspiration potential. Do NOT induce vomiting.
Acute Dermal Toxicity	No LD50 data established. Repeated or prolonged skin contact may cause defatting and irritation. Numeric endpoint requires supplier/test confirmation.
Acute Inhalation Toxicity	No LC50 data established. Low vapour pressure limits inhalation risk under ambient conditions; mist/aerosol exposure requires



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	engineering controls. Numeric endpoint requires supplier/test confirmation.
Skin Irritation	Repeated or prolonged contact may cause defatting and mild irritation. Numeric endpoint requires supplier/test data.
Eye Irritation	May cause mild irritation on contact. Numeric endpoint requires supplier/test data.
Sensitisation	Not classified as a skin or respiratory sensitiser. No data indicating sensitisation potential.
Carcinogenicity	LAB (CAS 67774-74-7) is not classified as a carcinogen under current GHS/CLP harmonised classification. Not listed by IARC, NTP or OSHA as a carcinogen. (Note: benzene, a raw material, is a known human carcinogen, but LAB is a distinct alkylated product; confirm residual benzene content with supplier COA.)
Mutagenicity	Not classified as a mutagen under current GHS/CLP harmonised classification. Endpoint confirmation requires supplier/test data.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Classified Aquatic Chronic 3 (H412): harmful to aquatic life with long lasting effects. Acute aquatic LC50/EC50 data not provided in source; obtain from supplier, ECHA or PubChem where required.
Persistence / Degradability	Not confirmed as readily biodegradable in source. LAB is generally considered biodegradable under aerobic conditions but treat as persistent unless verified. Do not assume ready biodegradability.
Bioaccumulation	High log Kow (estimated ~6–7) indicates significant bioaccumulation potential. Use verified log Kow / BCF data where available.
Mobility in Soil	Insoluble in water; low mobility in aqueous environments. May adsorb to soil/sediment. 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 discharge to drains or watercourses.
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Contaminated Packaging	Empty containers may retain product residues; handle as hazardous until cleaned or disposed. Return to supplier or dispose via approved waste contractor.
Indian Regulations	Follow Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and applicable Pollution Control Board requirements. Assign waste code according to actual process and local regulation.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	Not regulated	Not regulated	Not regulated
Proper Shipping Name	Not applicable	Not applicable	Not applicable
Class	Not regulated	Not regulated	Not regulated
Packing Group	Not applicable	Not applicable	Not applicable
Marine Pollutant	N/A	Verify with carrier	N/A

LAB (flash point ≥ 130 °C) is generally not regulated as a dangerous good under ADR, IMDG or IATA when flash point exceeds Class 3 threshold. Verify flash point on supplier COA and confirm marine pollutant status before shipment. Use UN-certified compatible containers for international transport. Verify current carrier rules before each shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Classified and labelled in accordance with EU CLP Regulation (EC) No 1272/2008 as listed in Section 2. Observe REACH (EC) No 1907/2006 requirements (registration, downstream user obligations, substance evaluation). Observe applicable workplace chemical, VOC and environmental directives.
OSHA (USA)	Prepared in OSHA HCS / HazCom 2012 aligned 16-section SDS format. Verify TSCA inventory / SNUR status before US import or distribution; UVCB/mixture status may require supplier confirmation.
India	Observe applicable Indian MSIHC Rules 1989 (as amended), Environment Protection Rules, Hazardous Waste Management Rules 2016, workplace chemical safety, storage, transport and pollution control requirements.
Other Jurisdictions	China: Apply GB/T SDS and GHS classification requirements where marketed. Canada: Classify/label under WHMIS 2015/HPR using Section 2 classification; bilingual SDS/label and ingredient disclosure



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may be required for Canadian sale. Australia: Check AICS inventory status before import. GCC/Middle East: Observe applicable GHS-aligned local requirements. 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 with all applicable laws and regulations. Supreme Petro Chemicals shall not be liable for any loss, injury, or damage resulting from reliance on this information.

FULL TEXT OF H-STATEMENTS

- H304 — May be fatal if swallowed and enters airways
- H412 — Harmful to aquatic life with long lasting effects