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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product	Linear Alkylbenzene Sulfonic Acid (LABSA) 96%	**Revision date**	2026-11-16
Version	1.0	**Brand**	Richest

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	Linear Alkylbenzene Sulfonic Acid (LABSA) 96%
Synonyms	No data available
CAS No.	27176-87-0
EC No.	248-289-4
Molecular formula	R-C6H4SO3H (R = C10–C13 linear alkyl)
Molecular weight	322.7 g/mol (average)
Relevant identified uses	Raw material for laundry powder, dishwashing liquid, detergent gels, liquid soaps and cleaning powders.; Mercerizing/washing agent in textiles; intermediate for sulfonate salts used as emulsifiers and wetting agents.
Uses advised against	No specific uses advised against were identified in the reviewed sources.
Company	Richest Group
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SECTION 2: Hazards identification

GHS Classification	Met. Corr. 1; Acute Tox. 4 (Oral); Skin Corr. 1B; Eye Dam. 1
Pictogram(s)	GHS05; GHS07
Signal word	Danger
Hazard statement(s)	H290 May be corrosive to metals; H302 Harmful if swallowed; H314 Causes severe skin burns and eye damage; H318 Causes serious eye damage
Precautionary statement(s)	P234; P260; P264; P270; P280; P301+P330+P331; P303+P361+P353; P304+P340; P305+P351+P338; P405; P406; P501
Other hazards	No other hazards were identified in the reviewed sources.

SECTION 3: Composition/information on ingredients

Component	Linear Alkylbenzene Sulfonic Acid (LABSA) 96%
CAS No.	27176-87-0
EC No.	248-289-4
Classification	Met. Corr. 1; Acute Tox. 4 (Oral); Skin Corr. 1B; Eye Dam. 1
Concentration	Active matter ≥96%

SECTION 4: First-aid measures	
If inhaled	Inhalation: fresh air and rest
In case of skin contact	Skin: remove contaminated clothing and rinse with plenty of water or shower
In case of eye contact	Eyes: rinse with plenty of water for several minutes, removing contact lenses if easily possible, then obtain medical attention
If swallowed	Ingestion: rinse mouth, do not induce vomiting, give one or two glasses of water and obtain medical attention.
Most important symptoms and effects	No data available
Indication of immediate medical attention	Treat symptomatically. Show this safety data sheet to medical personnel.

SECTION 5: Fire-fighting measures	
Suitable extinguishing media	Use water spray/fog, foam, carbon dioxide or dry chemical as appropriate; cool containers with flooding quantities of water from a safe distance. Wear SCBA. Combustion may generate carbon monoxide, carbon dioxide, SO2/SO3 and hydrogen sulfide; avoid solid water streams where ineffective.
Unsuitable extinguishing media	No data available
Special hazards arising from the chemical	No data available
Advice for firefighters	Wear self-contained breathing apparatus and protective clothing appropriate for the surrounding fire.

SECTION 6: Accidental release measures	
Personal precautions and emergency procedures	Avoid contact with the material. Ensure adequate ventilation. Wear appropriate personal protective equipment.
Environmental precautions	Prevent uncontrolled release to drains, soil and watercourses.
Methods for containment and cleaning up	Use hand/eye protection and, for significant releases, a chemical-protection suit including SCBA. Prevent environmental discharge. Collect leaking liquid in sealable non-metallic containers; cautiously neutralize residue with sodium bicarbonate. Aslan advises containment with absorbent material and flushing only small affected areas with water.

SECTION 7: Handling and storage	
Precautions for safe handling	Avoid spills and skin/eye contact; use ventilation and no open flames. Keep containers tightly closed. Aslan specifies storage at −40 to +60°C and the TDS requires a dry, cool place away from sunshine and rain. Keep separate from bases and oxidants and do not store in carbon steel or aluminium.
Conditions for safe storage, including incompatibilities	Store in a cool, well-ventilated place in a corrosion-resistant container with resistant inner liner; keep tightly closed, away from incompatible materials, freezing and excessive heat; store locked up.

SECTION 8: Exposure controls/personal protection	
Occupational exposure limit values	No data available
Biological limit values	No biological limit values were identified in the reviewed sources.

SECTION 8: Exposure controls/personal protection	
Appropriate engineering controls	No occupational or biological exposure limits were reported in the ECHEMI SDS. Use ventilation/local exhaust or breathing protection, protective gloves and clothing, approved chemical safety goggles and a face shield where exposure is possible; use chemical protection including SCBA for emergency spill response.
Eye/face protection	Use safety eyewear appropriate to the risk of exposure.
Skin and body protection	Wear suitable protective gloves and clothing appropriate to the risk of exposure.
Respiratory protection	Use suitable respiratory protection if exposure limits may be exceeded or dust, mist or vapour is generated.
Thermal hazards	No specific thermal hazards were identified in the reviewed sources; see Sections 5 and 10.

SECTION 9: Physical and chemical properties	
Physical state	Brown viscous liquid
Colour	Honey brown at 25°C (Aslan 96% TDS); ICSC describes yellow-to-brown liquid.
Odour	Penetrating odour (Aslan SDS).
Melting point / freezing point	ca. 10°C
Boiling point / boiling range	>100°C; decomposes on strong heating above 205°C
Flammability	Aslan's >96% SDS states that the material is not flammable; ICSC describes dodecylbenzenesulphonic acid as combustible and producing irritating or toxic fumes in a fire.
Explosion / flammability limits	No data available in the consulted manufacturer SDS/TDS or ICSC entry.
Flash point	>100°C, closed cup
Auto-ignition temperature	No data available in the consulted sources.
Decomposition temperature	>204.5°C; ICSC also states decomposition above 205°C, producing toxic fumes including sulfur oxides and hydrogen sulfide.
pH	<1, strongly acidic
Viscosity	ca. 700–900 mm2/s at 25°C
Solubility	Soluble in water with heat evolution; partially soluble in ethanol
Partition coefficient n-octanol/water	No data available for the commercial 96% alkyl-chain mixture in the consulted manufacturer SDS/TDS.
Vapour pressure	No numerical value reported; the manufacturer describes LABSA as nonvolatile.
Density and/or relative density	ca. 1.06 g/cm3 at 25°C
Relative vapour density	Not applicable as a practical exposure property for the manufacturer-described nonvolatile viscous liquid; no numerical value reported.
Particle characteristics	Not applicable — viscous liquid.

SECTION 10: Stability and reactivity	
Reactivity	Reacts with alkalis and generates heat (Aslan SDS). ICSC reports reactions with bases and oxidants, sulfur-oxide generation and attack on metals.
Chemical stability	No separate stability rating is given by Aslan; store tightly closed at −40 to +60°C, in a dry, cool place away from sunshine and rain.

SECTION 10: Stability and reactivity	
Possibility of hazardous reactions	Heat is generated with alkalis. Bases and oxidants can produce hazardous sulfur oxides; ECHEMI also reports toxic sulfur-oxide fumes on contact with strong acids.
Conditions to avoid	Avoid heating above approximately 205°C, open flames, contact with incompatible materials, and exposure to sunshine and rain during storage.
Incompatible materials	Alkalis/bases, oxidants and strong acids; keep separate from bases and oxidants. Do not store in carbon steel or aluminium; ICSC states that the substance attacks metals.
Hazardous decomposition products	Fire/combustion: carbon dioxide, carbon monoxide and sulfurous gases (SOx); ECHEMI/ICSC also identify sulfur trioxide, sulfur dioxide and hydrogen sulfide. Aslan reports no hazardous decomposition products under normal conditions.

SECTION 11: Toxicological information	
Acute toxicity	Oral LD50 890 mg/kg (rat) in the ECHEMI SDS; GHS Acute Oral Toxicity Category 4 (H302). Inhalation and dermal acute-toxicity values were not available.
Skin corrosion irritation	Corrosive; causes skin burns, GHS Skin Corrosion Category 1B/H314. ICSC lists redness, pain, burns and blisters.
Serious eye damage irritation	Causes severe eye damage as part of H314; ICSC describes severe burns and possible loss of vision.
Additional information	Vapour/gas may irritate the respiratory system. The substance is corrosive to the respiratory tract and on ingestion; possible symptoms include cough, laboured breathing, abdominal pain, burning sensation, shock or collapse.

SECTION 12: Ecological information	
Ecotoxicity	Aslan SDS: fish LC50 1–5 mg/L, Daphnia LC50 15 mg/L and algae LC50 10–300 mg/L; species and exposure durations were not stated. ICSC states that the substance is toxic to aquatic organisms.
Persistence degradability	Readily biodegradable (Aslan). Primary biodegradation MBAS 93–97%; total biodegradation: Most 73–84%, Closed Bottle 55–65%, Sturm 45–76%. The TDS separately states a biodegradation rate above 90%.
Mobility in soil	ECHEMI reports that sesquioxides such as ferric oxide and aluminium oxide are important in sorption of linear alkylbenzenesulfonic acid; no Koc value is given.
Other adverse effects	Do not discharge into natural waters without pretreatment; prevent environmental release.

SECTION 13: Disposal considerations	
Product disposal methods	Dispose by special means, such as suitable controlled incineration, in accordance with local regulations. ECHEMI identifies a licensed chemical-destruction plant or controlled incineration with flue-gas scrubbing; do not discharge to sewer systems or contaminate water, foodstuffs, feed or seed.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal in accordance with local regulations.

SECTION 14: Transport information	
UN Number (ADR/RID, IMDG, IATA)	2586
UN Proper Shipping Name	ALKYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid
Transport hazard class(es)	8
Packing group	III

SECTION 14: Transport information

Environmental hazards / Marine pollutant	Marine pollutant: No
Special precautions for user	EmS Code: F-A, S-B

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product	Aslan SDS: Corrosive (C), R22 harmful if swallowed and R34 causes burns, with S26/S28/S36/37/39 precautions. ICSC transport classification: UN2586, Class 8, Packing Group III; the Aslan 96% TDS limits free sulphuric acid to 1.5% maximum, so consignment-specific transport classification should be confirmed. ECHEMI lists the substance on EINECS/EC, TSCA, NZIoC, PICCS, IECSC and KECL inventories.

SECTION 16: Other information

Full text of H-Statements	H290 May be corrosive to metals; H302 Harmful if swallowed; H314 Causes severe skin burns and eye damage; H318 Causes serious eye damage
Revision date	2026-11-16
Version	1.0
References	Supplier technical documents, public SDS/COA/TDS and regulatory sources reviewed. Public data citations are listed below. Public data sources: Linear Alkyl Benzene Sulphonic Acid (>96%) — Material Safety Data Sheet: https://www.aslanchemical.com/style/pdf/LABSA-MSDS-Linear%20Alkylbenzene%20Sulfonic%20Acid.pdf | Linear Alkylbenzene Sulfonic Acid (LABSA 96%) — Technical Data Sheet: https://www.aslanchemical.com/style/pdf/TDS-LABSA-Linear%20Alkylbenzene%20Sulfonic%20Acid.pdf | ICSC 1470 — Dodecylbenzenesulfonic Acid: https://chemicalsafety.ilo.org/dyn/icsc/showcard.display?p_card_id=1470 | Dodecylbenzenesulphonic Acid — Safety Data Sheet, UN GHS Revision 8: https://www.echemi.com/sds/linear-alkyl-benzene-sulfonic-acid-pd20170320195310109.html | LABSA 96% — Product Specification: https://www.echemi.com/produce/pr2507311529-labsa-96-high-purity-liquid-detergent-grade-for-cleaning-products.html
Abbreviations	CAS: Chemical Abstracts Service; ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; IMDG: International Maritime Dangerous Goods; IATA: International Air Transport Association; SDS: Safety Data Sheet.
Disclaimer	The information in this SDS applies to the specified product and is provided in good faith based on information available to Richest Group at the date of issue. It describes health, safety and environmental requirements and does not constitute a guarantee of product properties. Users must assess suitability and comply with applicable regulations.