

MATERIAL SAFETY DATA SHEET

Section 1. IDENTIFICATION

Substance or mixture name (commercial name): Linear Alkyl Benzene Sulphonic Acid

Major recommended uses for the substance or mixture: Surfactant most used worldwide in the production of detergent powders and liquids used in household cleaning and detergent formulations in other institutional and industrial application.

Supplier: Elchemy

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Section 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

- Acute toxicity: Category 4 (Oral)
- Skin corrosion/ irritation: Category 1C
- Eye damage/ irritation: Category 1

GHS label elements: Pictograms:

Word of warning: Danger



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Hazard Statement:

1. Harmful if inhaled.
2. Causes severe burns to skin and eye

Precaution Statement:

1. Do not eat, drink or smoke when using this product.
2. If Swallowed, rinse mouth. Do not induce vomiting. Take medical help if you feel unwell.
3. Skin Contact: Remove immediately all contaminated clothing. Rinse skin with water/ take a shower. Wear contaminated clothing only after washing
4. If Inhaled: Remove person to fresh air.
5. In case contact with eyes: Wash eyes with water for few minutes.

Other hazards which not result in a classification: Not applicable

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE

Common chemical name or technical name: Linear Alkyl Benzene Sulphonic Acid

Ingredients or impurities which contribute to hazards:

Chemical name or common	CAS registry number	Concentration or concentration range
Linear Alkyl Benzene sulphonic Acid (Acid Slurry)	68584-22-5	96%

Section 4. FIRST-AID MEASURES

First-aid measures:

Skin	May cause burn, Remove contaminated clothing and wash with plenty of water. Call physician immediately.
Eye	Flush eyes immediately with running water for long time. Seek medical assistance immediately.

May cause irritation of the mouth. If accidentally ingested, administer water.



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Inhalation/ Ingestion: Call physician immediately.

Most important symptoms and effects, acute and delayed:

Symptoms:	May cause burns to mouth, throat and stomach. Severe skin burns and eye damage.
Effect:	Stomach pains. Pain or irritation, redness, blistering of the skin. Pain, tearing, and redness of
Notes to physician:	Treat symptomatically. Dilute the acid by administering large amounts of water or milk. Following administer soft neutralizing, such as milk of magnesia, lime water, aluminum hydroxide gel or soap solution. Also do not use sodium carbonate or bicarbonate, which react with the acids producing carbon dioxide. In case of more pronounced and severe burns, apply symptomatic treatment.

Section 5. FIREFIGHTING MEASURES

Suitable (and unsuitable) Extinguishing media:	Suitable: Water spray, Foam, CO2. Unsuitable: None in
Extinguishing media not recommended:	Water jets directly over the burning liquid.
Specific hazards of the substance or mixture:	During firing can release toxic gases, SO2 and H2S. In a fire or if heated, a pressure increase will occur and the container may burst. In combustion releases toxic and corrosive gases such as

Full protective equipment for firefighters. Position themselves with their backs to the wind. Use respiratory protective equipment in firefighting.

Protective measures for the firefighting team:

- Fire-fighting measures: Turn off all sources of ignition;

Section 6. SPILL AND LEAK CONTROL MEASURES

Personal precautions, protective equipment and emergency procedures:



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For non-emergency personnel:	Use personal protective equipment. Avoid inhalation, contact with eyes and skin.
For emergency responders:	Use resistant protective clothing to chemicals, PVC gloves and boots. Safety glasses against dripping. If you suspect the presence of vapors, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It can be dangerous to the one who applies artificial Wash contaminated clothing thoroughly with water before

Environmental precautions:

- Prevent the flow of product to rivers, streams, water courses or low-lying areas, underground sewers, wells, soil and vegetation.
- On land: Soak up with absorbent material (sand, acid binder agent, universal binder, sawdust).
- Collect all the waste in suitable containers and label and dispose in accordance with local legislation.
- Communicate with the authorities and alert the neighborhood if necessary.
- Take contaminated water to the effluent Treatment Plant. In water, treat it properly and ensure it meets Pollution Control norms.

Section 7. HANDLING AND STORAGE

Precautions for safe handling:	Handle in a ventilated area or with general ventilation system / local exhaust. Avoid formation of vapors / mists. Avoid contact with incompatible materials. Use appropriate protective equipment. Handle the product in a cool and well-ventilated place. In the loading/unloading operations shall be avoided packaging falls, disappearance of product identification. Heavier packages must be transported by forklift. Do not mix with incompatible products. Label the packaging. Wash hands and face after handling and before eating and remove contaminated clothing and protective equipment before entering in eating areas. Do not eat, drink or smoke in areas where this material is handled, stored and processed.
Conditions for safe storage, including any incompatibilities	Store at temperatures below 40°C. Store in a dry, cool and well-ventilated place. Keep away from alkaline oxidizing agents. Keep away from heat and sources of ignition. Use stainless steel for the construction of tanks and pipes. Alternatively, one may use carbon



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steel tanks coated (for example with epoxy or polyester resins). Avoid exposure of drums under the sun, rain and high

If stored in carbon steel tanks, corrosion can extract a small amount of iron, which affects the product. Plastic containers, 316L stainless steel tanks and carbon steel coated tanks with epoxy resins or polyester. Do not store in unlabeled containers.

Section 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Control parameters	
Occupational exposure limits:	Not established
Biological indicators:	Not established
Other limits and values:	Not established
Appropriate engineering controls: Individual protection measures	If stored in confined space provide ventilation / exhaust system.

Eye/ face protection:	Use goggles /space shield
Skin and body protection:	Full clothing (pants and long sleeve), PVC gloves and boots (acid-resistant).

Thermal Hazards:	Not applicable.
Special precautions:	Chemicals should only be handled by trained people; Install shower and eyewash on shop floor. Strictly follow the operating procedures and safety when working with chemicals.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, shape, etc.): Honey Brown viscous liquid

Odor and odor threshold: Characteristic

Section 10. Reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
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Chemical stability:	Stable under normal conditions of temperature and pressure.
Possibility of hazardous reactions:	Is reactive with alkaline bases and oxidizing agents. The reaction with sulfides, phosphides, cyanide, carbides and silicides release poisonous gases
Conditions to avoid:	Contact with metals, oxides, carbides and carbonates.
Incompatible materials:	Metals, oxides, carbides, carbonates and hydroxides.
Hazardous decomposition products:	In the burning, gases and partial and total combustion vapors are produced, such as carbon monoxide and carbon dioxide. The smoke can also contain sulfur oxides and hydrogen sulphide, which may be toxic

Section 11. Toxicological Information

Acute toxicity:	LD50 (oral, rats): 775 mg/kg
Serious eye damage/ eye irritation:	Irritating.
Respiratory or skin sensitization:	Respiratory: not present significant effects or critical hazards. Skin: corrosive to the skin.
Carcinogenicity:	Not available.
Toxicity to reproduction:	Not available.
Specific target organ toxicity - Single exposure:	Not available.
Specific target organ toxicity - Repeated exposure:	Not available.
Aspiration Hazard:	Not available.

Main symptoms

Inhalation:	Not available.
Ingestion:	Stomach pain
Eye Contact:	Pain, tearing, redness
Skin Contact:	Pain or irritation, redness, blistering of the skin may occur.
Inhalation:	Gases and vapors very irritating to the airways



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Ingestion:	Harmful if swallowed. Can cause burns to the mouth, throat and stomach.
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Eye Contact:	Causes severe eye injury.
Skin Contact:	Causes severe burns.

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:	LC50 (Daphnia magna, 48h): 9,3 - 11,6 mg/L
Persistence and degradability:	Aerobic biodegradation is main mechanism for removal
Bioaccumulative potential:	The extract did not bioconcentrate in aquatic organisms.
Mobility in soil:	The extract is soluble in water, showing high mobility in the soil.
Other adverse effects:	No significant effects or critical hazards.

Section 13. CONSIDERATIONS ON TREATMENT AND DISPOSAL

Recommended methods for disposal

Product:	Significant amounts of residual waste product should not be removed by channeling wastewater, but processed in a Effluent Treatment Plant Remove any excess products and non-recyclable products through an
Product waste:	Keep the product remains in their original containers and properly sealed.
PPE required for treatment and disposal of waste:	Use safety chemistry goggles.
	Use impervious gloves, rubber boots and protective clothing to prevent skin contact.



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Respiratory protection with filter for protection of organic vapors and acid

Section 14. TRANSPORT INFORMATION

National and international regulations Land:

UN - "United Nations" Recommendations on the TRANSPORT OF DANGEROUS GOODS. Model Regulations, 16th Edition, 2009.

UN number	2586
UN proper shipping name	Alkyl sulphonic acid., liquid
Class/subclass of main risk	8
Class/subclass of subsidiary risk	Not applicable
Risk number	80
Packing group	III
Danger to the environment	No known significant effects or critical hazards

Sea:

IMO - "International Maritime Organization" International Maritime Dangerous Goods Code (IMDG Code) - Incorporating Amendment 34-08; 2008 Edition.

UN number	2586
UN proper shipping name	Alkyl sulphonic acid, liquid
Class/subclass of main risk	8
Class/subclass of subsidiary risk	Not applicable
Risk number	80
Packing group	III
Danger to the environment	No known significant effects or critical hazards



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Air:

- **IATA** - "International Air Transport Association"
- **Dangerous Goods Regulation (DGR)** - 51th Edition, 2010.
- **UN number** 2586
- **UN proper shipping name** Alkyl sulphonic acid, liquid
- **Class/subclass of main risk** 8
- **Class/subclass of subsidiary risk** Not applicable
- **Risk number** 80
- **Packing group** III
- **Danger to the environment** No known significant effects or critical hazards

Section 15. REGULATORY INFORMATION

Globally Harmonized System of Classification and Labeling of Chemicals (GHS), UN.

Section 16. OTHER INFORMATION

Important information, but not specifically described at the previous sections:

If necessary, or in case of doubts, contact or visit our web site at: www.Elchemy.com

Additional information available by formal request.

References:

- Other MSDS Available Through Net

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