



Sincere Union Imp & Exp Co.,Ltd

Metals Kingdom Industry Limited

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New Tech Development Zone, Baoding City, Hebei, P.R.China PC071000

Material Safety Data Sheet

Linear Alkyl Benzene Sulfonic Acid (LABSA)

1. Product Identification

TRADE NAME : LABSA

SYNONYMS: Dodecylbenzene Sulfonic Acid (Strait Chain), LAS, LABSA, Laurylbenzenesulfonic Acid, Laurylbenzenesulfonate, n-Dodecylbenzene Sulfonic Acid, Alkylbenzene sulphonate, sodium salt, Linear Alkylbenzene Sulphonic Acid, Dodecylbenzolsulfonsäure (German), ácido dodecilbenceno sulfónico (Spanish), Acide dodécylbenzènesulfonique (French).

CAS: 27176-80-8

EINECS NO.: 248-289-4

FORMULA: R-C₆H₄-SO₃H

APPLICATIONS:

LABSA is mainly used in hair shampoo, bath shampoo, dish detergents and complex soap, laundry powder, dishware cleaner in daily chemical industrial.

LABSA is also used in wetting and clearer, dyeing assistant in textile industry, degrease agent in electroplate and leather manufacture, de-inking agent in paper making.

Packing: in 215 KG net new plastic drums or 1050kg IBC Tank

2.COMPOSITION / INFORMATION ON INGREDIENTS

Items	Standard	Test Result
Purity	96 MIN.	96.65
Color and loust (Klett)	50 MAX.	35
Free Acid	1.5 MAX.	1.35
Free Oil	2.0MAX.	1.50



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NAME	Concentr.	CAS N.	EC N.	SYMBOL	R Phrases
Sulfuric Acid	4-7% max	7664-93-9	016-020-00-8	C-Corrosive	R 35

3. HAZARDS IDENTIFICATION

ADVERSE HUMAN HEALTH EFFECTS : The product is a corrosive substance. Contact with the eyes may cause ocular lesions. Contact with the skin may cause burns. It is seriously irritating to the mucous if swallowed. The product is harmful if ingested.

ENVIRONMENTAL EFFECTS : The product is not classified as dangerous to environment. The user is advised to use anyway good work practice and to avoid contamination of environment.

OTHER EFFECTS : The product is a strong acid which reacts exothermally with bases. Dilution with water produces heat.

4. FIRST AID MEASURES

INGESTION : The product may cause severe irritation of the mouth and esophagus. If accidentally ingested, administer water. Do not induce vomiting. Call a physician immediately.

INHALATION : The product is not volatile. If under particular conditions, such as in the case of fire, fumes or aerosols are inhaled, remove the patient to a well ventilated location and call a physician.

EYE CONTACT : Flush eyes immediately with running water for a long time. Seek medical assistance immediately.

SKIN CONTACT : The product may cause burns. Remove the contaminated clothing and wash with plenty of water and call a physician immediately.

ANNOTATIONS TO A PHYSICIAN : The product is a high foaming anionic surfactant. If gastric lavage is Necessary, then use a silicone antifoam (dimethicone).

5. FIRE FIGHTING MEASURES



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GENERAL INFORMATION : The product poses little risk of ignition. If it happens to be involved in a Fire, keep the tank cooled by means of water spray in order to avoid the Decomposition of the product.

SUITABLE EXTINGUISHING MEDIA : Water spray, foam, carbon dioxide.

NOT SUITABLE EXTINGUISHING MEDIA : None in particular.

SPECIFIC HAZARDS : Combustion produces carbon dioxide, carbon monoxide and oxides of Sulphur. When heated to decomposition, toxic fumes of SO₂ and SO₃ are Emitted.

SPECIAL EQUIPMENTS : For large fires, wear self-contained breathing apparatus.

6.ACCIDENTAL SPILL MEASURES

PERSONAL PRECAUTIONS : Avoid direct contact with the product. Wear rubber gloves and rubber Boots, face shield and keep close by a gas mask provided with filter For acid vapors.

ENVIRONMENTAL PRECAUTIONS : Surround the spill with earth or sand. Collect the spilled material in suitable Containers, if necessary absorb the spill onto inert materials. Dispose of material according to the uirements of local law. In case of Leaking into sewer inform the local authorities.

METHODS FOR CLEANING UP : Neutralize the residue of the product with NaOH or with caustic lime. Wash the contaminated area with plenty of water. If excessive foam is produced, use a silicone based antifoam to bring it down.

7.HANDLING AND STORAGE

HANDLING : Avoid contact with the product. While handling the product, wear a protective apron, rubber or PVC gloves and a face shield. Handle the product in well ventilated areas. Neutralize with base under controlled conditions. Do not heat above 50 degrees C. Compatible materials: stainless steel, mild steel, plastic materials. incompatible with galvanized steel, aluminium, copper alloys

8.EXPOSURE CONTROLS / PERSONAL PROTECTION



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PRECAUTIONARY MEASURES : Installation of an eyewash fountain is recommended.

Do not eat or drink onto the work place, When
handling the product use approved protective clothing,
rubber or PVC gloves, and a face shield.

PERSONAL PROTECTIVE EQUIPMENT : Wear safety goggles or a face shield and approved
protective clothing.

THRESHOLD LIMIT VALUE : Not established.

REQUIREMENTS FOR PERIODIC HEALTH CHECK UP : Specific measures are not foreseen.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AT 20 DEGREES C : Brown viscous liquid.

ODOR : Of sulfur.

NOMINAL ACTIVE MATTER CONCENTR : ~ 90% m/m.

AVERAGE MOLECULAR MASS : ~ 326

SOLUBILITY AT 20 DEGREES C

- water : Soluble.
- ethanol : Soluble.
- acetone : Not compatible.
- aliphatic hydrocarbons : Insoluble.

MASS DENSITY AT 20 DEGREES C : ~ 1.070 g/cm³

VISCOSITY AT 20 DEGREES C : ~ 1500 – 2000 mPa.s.

MELTING RANGE : ~ - 10 DEGREES C.

BOILING POINT : ~ 315 DEGREES C.

VAPOUR PRESSURE at 20 DEGREES c : Below 0.15 (0.001 mm Hg).

VAPOUR DENSITY (air = 1) : Not applicable to this product.

FLASH POINT (PMcc) : >200 DEGREES C.

AUTOIGNITION TEMPERATURE : Not applicable to this product.

DECOMPOSITION TEMPERATURE : > 100 DEGREES C.

Ph : ~ 2.

EXPLOSION PROPERTIES : Not pertinent to this product.



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OXIDIZING PROPERTIES : Not pertinent to this product.

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS : In case of overheating, sulfur oxides can be emitted.

CONDITIONS TO AVOID : Do not heat above 80 – 90 DEGREES C.

MATERIALS TO AVOID : Neutralization with bases under uncontrolled conditions.

INTENDED USE AND TRANSFORMATION : The product maybe neutralized under controlled conditions with the appropriate base to produce the corresponding salt.

11. TOXICOLOGY INFORMATION

POSSIBLE ROUTES OF PENETRATION : Ingestion and contact.

INGESTION : Corrosive substance, harmful for ingestion. Oral acute
LD50 : > 500 – 2,000 mg/Kg.

EYE CONTACT : Severe eye irritant (rabbit). It may cause irreversible damage to the eyes.

SKIN CONTACT : Contact may cause ulcerations.

SENSITIZATION : Not sensitizing.

INHALATION : Inhalation is possible only as an aerosol. Strong irritant to respiratory passages.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DISTRIBUTION : Water is likely to be the main transport medium for the chemical, to estimate its possible environmental distribution.

PRIMARY BIODEGRADABILITY : > 90% (OECD screening test (sodium salt)) The surfactant fulfils the requisite minimum requirements of primary Biodegradability.

ABIOTIC DEGRADABILITY : Not available.



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ECOTOXICITY : 2.49 mg O₂/mg.

CHEMICAL OXYGEN DEMAND(COD) : Not available.

LOG P o/w : Not applicable, surface active substance.

BCF : Insufficient available information.

13.DISPOSAL CONSIDERATIONS

Dispose of product in authorized places / methods in observance with current laws. It may be treated in a biological waste water treatment plant.

14.TRANSPORT INFORMATION

LABSA UN CLASSIFICATION NUMBER : 2586

NAME OF THE DELIVERING PRODUCT : Linear Alkyl Benzene Sulfonic Acid (LABSA)

BY SEA (IMO / IMDG):

Class : 8 Page 8105 Packing Group: III Label: of class 8 - model H

MARPOL Annex II: Cat. C - Alkylbenzenesulphonic acid MARPOL Annex III: -----

EmS: F-A, S-B MFAG: Table no. 007]

BY ROAD (ADR) : Class 8; 34 DEGREES C Identification number on the plate: 80 / 2586 Packing group III Label 8

BY RAIL (RID) : Class 8; 34 DEGREES C Identification number on the plate: 80 / 2586 Packing group III Label 8

BY AIR (ICAO / IATA)

Class 8

15.REGULATORY INFORMATION

CLASSIFICATION AND LABELLING

PROVISIONAL

SYMBOLS OF HAZARD:

RISK PHRASES:

R 22 – Harmful if swallowed.



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R 34 – Causes burns.

SAFETY ADVICES:

S 26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical help.

S 28 – After contact with skin, wash immediately with plenty of water.

S 36/37/39 – Wear suitable protective clothing, gloves and eye/face protection.

16. Other Information:

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