



SAFETY DATA SHEET

Linear Alkylbenzene Sulfonic Acid (LAS)

Section I. Identification of substance/preparation and company

Identification of the substance or preparation

Product Name : Linear Alkylbenzene Sulfonic Acid (LAS)
Synonyms : Dodecylbenzene Sulfonic Acid, LABSA
CAS# : 27176-87-0
Use of the substance/preparation : Surfactant

Manufacturer/Supplier : Ninigret Building XI
Sun Products Corporation
Attn: Consumer Relations
4750 West 2100 South, Suite 200
Salt Lake City, UT 84120

General Information Number : 1-832-261-2000 (24 hours)
Emergency Telephone Number : 1-800-565-5597 (24 hours, ProSAR)
Poison Control : 1-800-222-1222 (24 hours)
Chemtrec : 1-800-424-9300 (24 hours, Transportation Emergencies)

Section II. Composition/Information on ingredients

Ingredients as defined by the OSHA Hazard Communication Standard (29CFR § 1910.1200):

| Chemical Name | CAS Number | ACGIH TLV | OSHA PEL | NIOSH REL | % |
|------------------------------|------------|--|-------------------------------|-----------------------------|-----|
| Dodecylbenzene Sulfonic Acid | 27176-87-0 | NA | NA | NA | ≈96 |
| Sulfuric Acid | 7664-93-9 | STEL - 3 mg/m ³ TWA - 1mg/m ³ | PEL-TWA - 1 mg/m ³ | IDLH - 15 mg/m ³ | > 2 |
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Section III. First Aid Measures

| Routes of Exposure | First Aid Instructions |
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| Eye Contact | : Promptly flush with large amounts of water for at least 15 minutes. Contact physician if redness or irritation persists. |
| Skin Contact | : Promptly rinse with water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. |
| Ingestions (swallowed) | : Do not induce vomiting. Drink a glass of milk or water. Call a physician |

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| Inhalation | : | Move to fresh air. If symptoms persist, get medical attention. |
| Other | : | |
| * If symptoms persist, contact a physician | | |

Section IV. Fire Fighting Measures

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| Flash Point – Method: | : | > 201 F |
| Autoignition Temperature | : | ND |
| Flammable Limits | UFL | : ND |
| | LFL | : ND |
| Extinguishing Media | : | Water mist, carbon dioxide, foams or dry chemicals. |
| Special Fire Fighting Procedures | : | Wear self-contained breathing apparatus and protective clothing. |
| Fire / Explosion Hazard | : | Do not store near open flames and/or ignition sources. |
| Hazardous Combustion Products | : | Irritating and toxic gases or fumes may be released during a fire. |
| Content Under Pressure | : | No |
| Explosive | : | No |

Section V. Accidental Spill or Release Measures

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| Small or household Quantities | : | Small quantity (less than 1 gallon) spills and may be cleaned up and disposed of in normal household trash. Use appropriate containment to avoid environmental contamination. Prevent from spreading. |
| Large (industrial) release | : | Material may be slippery if spilled. Prevent spill from entering a waterway. Stop spill at source and contain material. Contain with inert absorbent material. Transfer liquid to container for recovery or disposal. Eliminate all ignition sources. Dispose in accordance with all applicable local, state, and federal regulations. |

Section VI. Safe Handling and Storage

Avoid prolonged or repeated contact with skin. Avoid inhaling vapour or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

No special handling precautions necessary. Store in tightly closed container in a cool, well-ventilated, and dry area at 40F to 90F. Keep from freezing. Keep away from fire and heat. Keep containers closed when not in use. Provide adequate ventilation. Store separately from oxidising agents.

Section VII. Exposure Control/Personal Protection

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| For routine consumer use | : | No special precautions necessary as long as product is used as directed. |
| For industrial activities | : | |
| | Respiratory Protection | : General ventilation required. Take necessary precautions to avoid breathing of material. Self contained breathing apparatus may be used. |
| | Hand Protection | : Gloves may be worn for protection. |
| | Eye Protection | : Wear safety glasses or full face shield if splashes are likely to occur. |
| | Skin Protection | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved. |

Section VIII. Physical & Chemical Data

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| Appearance | : | Liquid |
| Odor | : | Characteristic |
| Color | : | Clear to hazy brown |
| Boiling Point | : | > 201 F |
| Melting Point | : | ND |
| Freezing Point | : | ND |
| Evaporation Rate | : | ND |
| Density (lbs/gal) | : | 8.81 |
| Specific Gravity (H₂O = 1) | : | ND |
| Solubility in Water | : | Miscible |
| Vapor Pressure | : | ND |
| Viscosity | : | 960 - 1520 cps @ 68 F |
| pH | : | < 2 (as is) |
| pH (1% aqueous solution) | : | ND |
| %Volatile | : | ND |
| Other | : | |

Section IX. Stability & Reactivity Data

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| Stable | : | Yes |
| Conditions to Avoid | : | Extreme cold or heat, ignitino sources, and strong oxidising agents. Avoid contact with water. |
| Incompatibilities | : | Strong oxidizers, acids, and bases |
| Hazardous Decomposition | : | Irritating and/or toxic fumes and gases may be emitted upon the products decomposition. |
| Hazardous Polymerization | : | Not available |
| Corrosive to Steel, Aluminum | : | No |

Section X. Toxicology & Health Data

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| Potential acute health effects | : | Adverse health effects are considered unlikely when the product is used according to safe practices. |
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| LD50 | : | 650 mg/kg (rat) |
| Threshold Limit Value | : | Not Determined |
| | | |
| Effects of Acute Exposure | | |
| Ingestion | : | May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting, and delayed diarrhea. |
| Inhalation | : | While inhalation of a product mist is unlikely, such exposure may cause upper respiratory irritation. |
| Skin Contact | : | No irritation expected when used according to directions. Possible irritation from prolonged contact. |
| Eye Contact | : | May cause irritation and discomfort. |
| | | |
| Effects of Chronic Exposure | : | None expected |
| | | |
| Carcinogen Status | : | Non-carcinogenic |

Section XI. Ecological Information

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| Other adverse effects | : | This product is not expected to harm the environment when used properly according to directions. |
| Biodegradable | : | Not Determined |
| Bioaccumulation | : | Not expected to be bioaccumulating. |

Section XII. Recommended Waste Disposal Considerations

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| Method of disposal | : | Product does not meet the criteria of a hazardous waste under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of in accordance with all regulations applicable to non-hazardous waste. Small amounts may be flushed to sewer. Large quantities should not be flushed into the sewer system. May foam profusely when hit with water stream. Dispose in accordance with all applicable local, state, and federal regulations. |
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Section XIII. Transportation Information

| Regulatory Information | Land (US DOT) | Air (IATA/ICAO) | Water (IMO/IMDG) |
|-------------------------------|---|------------------------|---|
| Proper Shipping Name | RQ Alkylsulfonic Acid, Liquid (dodecylbenzenesulfonic acid) | NA | RQ Alkylsulfonic Acid, Liquid (dodecylbenzenesulfonic acid) |
| Hazard Class | 8 | NA | 8 |
| UN Number | UN 2586 | NA | UN 2586 |
| Packing Group | III | NA | III |
| Label Required | Corrosive 8 | NA | EmS No: 8-06, MFAG NO.: 700 |
| Additional Information | NA | Not Recommended | NA |

Section XIV. Regulatory Information

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|---|---|---|
| SARA 302 Hazardous Substances | : | None / No reportable quantities |
| SARA 304 | : | RQ of this product is 1042 pounds - Dodecylbenzene Sulfonic Acid (27176-87-0) |
| SARA 311/312 Hazard Categories | : | None / No reportable quantities |
| SARA 313 Emissions Reporting | : | None / No reportable quantities |
| Proposition 65 Listed Chemicals | : | None / No reportable quantities |
| TSCA | : | All components of this product comply with TSCA inventory listing requirements. |
| RCRA | : | See Section XII - Recommended Waste Disposal Considerations. |
| CAA HAPS or Ozone Depletory | : | Not available |
| CA 22 CCR Hazardous Wastes | : | Not available |
| IL, MA, NJ, PA, RI State RTK & Hazardous Notifications | : | Not available |
| Canadian DSL/NDSL | : | All components are listed on the DSL |

Section XV. Hazard Rating Information

| | | |
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| Extreme | = | 4 |
| Insignificant | = | 0 |
| Health | : | 3 |
| Fire | : | 1 |
| Reactivity | : | 0 |

Section XVI. Other Information

HISTORY

| | | |
|-------------------------------|---|------------|
| Date of Issue | : | 03/29/2011 |
| Date of Previous Issue | : | 01/05/2009 |
| Version | : | 3.0 |

N/A: Not Applicable
ND : Not Determined

Notice to reader

Sun Products Corporation cannot anticipate all conditions of handling and use of this product. Therefore, Sun Products Corporation accepts no responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products.

It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. Sun Products Corporation will accept no liability for damages or loss incurred from the improper use or handling of this product.