

# Material Safety Data Sheet

SA 320 Mono Linear Dodecyl Benzene Sulfonic Acid

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name(s) and Synonyms:** SA 320; Sulfonic Acid; Mono Linear Dodecyl Benzene Sulfonic Acid; Mono Linear Alkyl Benzene Sulfonic Acid

**Product Uses:** For use in the manufacture of surfactants

**COMPANY IDENTIFICATION:**

Allied Petrochemical, LLC  
2330 F.M. 2917  
Alvin, TX 77511

**EMERGENCY TELEPHONE NUMBERS**  
CHEMTREC: 800-424-9300

MSDS Requests: (281) 393-1233  
Environmental, Safety, & Health Info: (281) 393-1233  
Product Information: (281) 393-1233

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS #	% by Weight
Mono Linear Dodecyl Benzene Sulfonic Acid	27176-87-0	95 – 98
Benzene, C10-C16 Alkyl derivatives	68648-87-3	0.5 – 3.50
Sulfuric Acid	7664-93-9	1.00 – 1.5

Toxicological Data on Ingredients: Linear Mono Alkyl Benzene Sulfonic Acid: ORAL (LD50): Acute: 650 mg/kg [Rat].

## 3. HAZARDS IDENTIFICATION

**Potential Acute Health Effects:**

Extremely hazardous in case of eye contact (irritant). Very hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant). Hazardous in case of skin contact (permeator). Slightly hazardous in case of skin contact (corrosive). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available.  
MUTAGENIC EFFECTS: Not available.  
TERATOGENIC EFFECTS: Not available.  
DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged contact with spray mist may produce chronic eye irritation, severe skin irritation and respiratory tract irritation leading to frequent attacks of bronchial infection.

## 4. FIRST AID MEASURES

**Eye Contact:**

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

**Skin Contact:**

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with

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running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

## Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

## Inhalation:

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

## Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. **WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

## Ingestion:

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

**Serious Ingestion:** Not available.

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## 5. FIRE FIGHTING MEASURES

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**NFPA Rankings:** Health: 2 Fire: 1 Reactivity: 0

Flammability of the Product:	May be combustible at high temperature.
Auto-Ignition Temperature:	Not available.
Flash Points:	COC: > 200°F.
Flammable Limits:	Not available.
Products of Combustion:	SO <sub>2</sub> , CO, CO <sub>2</sub>
Fire Hazards:	Not available.
Explosion Hazards:	Not available.
Risks of explosion:	Not available.
Risks of explosion:	Not available.

## Fire Fighting Media and Instructions:

DRY chemical powder; Water spray; fog or foam. **DO NOT USE WATER JET.**

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## 6. ACCIDENTAL RELEASE MEASURES

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### Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

### Large Spill:

Corrosive liquid.

Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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## 7. HANDLING AND STORAGE

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Revision Date: 07/06/2010

Prepared According to the OSHA Hazard Communications Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1)

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## Precautions:

Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

## Storage:

Keep container dry. Keep in a cool place. Ground all equipment containing material. Corrosive materials should be stored in a separate safety storage cabinet or room.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

### Personal Protection:

Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Physical state and appearance:</b>	Liquid. (Viscous liquid.)
<b>Odor:</b>	Acidic to Mild to None
<b>Taste:</b>	Not available.
<b>Equivalent Molecular Weight:</b>	320 g/mole
<b>pH (1% soln/water):</b>	Acidic (Degree Not Determined)
<b>Boiling Point:</b>	Decomposes.
<b>Melting Point:</b>	Not available.
<b>Critical Temperature:</b>	Not available.
<b>Specific Gravity:</b>	1.02 – 1.07 (Water = 1)
<b>Viscosity:</b>	30 - 40 cSt (100°C)
<b>Vapor Pressure:</b>	Not available.
<b>Vapor Density:</b>	Not available.
<b>Volatility:</b>	Not available.
<b>Odor Threshold:</b>	Not available.
<b>Water/Oil Dist. Coeff.:</b>	Not available.
<b>Ionicity (in Water):</b>	Not available.
<b>Solubility:</b>	Partially Soluble in water < methanol.

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## 10. STABILITY AND REACTIVITY

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<b>Stability:</b>	The product is stable.
<b>Instability Temperature:</b>	Not available.
<b>Conditions of Instability:</b>	Not available.
<b>Incompatibility with various substances:</b>	Not available.
<b>Corrosivity:</b>	Non-corrosive in presence of glass. Corrosive on metals

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Polymerization: No

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## 11. TOXICOLOGICAL INFORMATION

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**Routes of Entry:** Dermal contact. Eye contact. Inhalation. Ingestion.  
**Toxicity to Animals: Acute oral toxicity (LD50):** 650 mg/kg [Rat].  
**Chronic Effects on Humans:** Not available.  
**Other Toxic Effects on Humans:** Very hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).  
Hazardous in case of skin contact (permeator), .  
Slightly hazardous in case of skin contact (corrosive).  
Special Remarks on Toxicity to Animals: Not available.  
Special Remarks on Chronic Effects on Humans: Not available.

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## 12. ECOLOGICAL INFORMATION

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**ECOTOXICITY:** This material may be toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water.

**ENVIRONMENTAL FATE:** No data available.

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## 13. DISPOSAL CONSIDERATIONS

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Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact your local environmental or health authorities for approved disposal of this material.

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## 14. TRANSPORT INFORMATION

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**Proper Shipping Name:** Alkyl sulfonic acids, liquid with not more than 5% free sulfuric Acid  
**Hazard Class:** 8 Corrosive Liquid  
**ID Number:** UN2586  
**Packing Group:** PG III  
**Exceptions:** 154  
**Labels Required:** Corrosive  
**Reportable Quantity:** N/A  
**Freight Classification:** Petroleum Oil, NOIBN  
**Special Transportation Notes:** Container size limited to 5 liters in passenger aircraft or railcars. In cargo aircraft, container size limited to 60 liters.

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## 15. REGULATORY INFORMATION

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### Federal and State Regulations:

Pennsylvania RTK: Alkyl Benzene Sulfonic Acid  
Massachusetts RTK: Alkyl Benzene Sulfonic Acid  
New Jersey: Alkyl Benzene Sulfonic Acid  
TSCA 8(b) inventory: Alkyl Benzene Sulfonic Acid

### Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).  
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

### Other Classifications:

WHMIS (Canada): CLASS E: Corrosive liquid.

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DSCL (EEC):

R37/38- Irritating to respiratory system and skin. R41- Risk of serious damage to eyes.

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## 16. OTHER INFORMATION

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The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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