



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

DODECYLBENZENE SULFONIC ACID

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Revision Date: August 2007

Synonyms: Benzene Sulfonic Acid, C₁₀₋₁₆-alkyl

CAS #: 27176-87-0

DOT Hazard Class: **Regulated Corrosive**

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Dodecylbenzene Sulfonic Acid 95.5% min.

Sulfuric Acid CAS# 7664-93-9 - TWA (OSHA) 1 mg/m³ 1.5% max.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Clear to slightly brown liquid with a sharp sulfur dioxide odor. It is a strong and irritating organic acid. Avoid contact with skin or eyes, may cause burns. Do not swallow. Breathing of vapors may cause sickness, sneezing, or irritation to the nose, throat, and lungs. Persons with skin allergies or respiratory problems should avoid contact.

POTENTIAL HEALTH EFFECTS:

EYE: Contact with the eyes will cause irritation, reddening, and possible chemical burns. If not removed immediately may result in injury to eyes.

SKIN: Contact with the skin will cause a gradual burning feeling resulting in irritation, reddening and possible chemical burns. Prolonged and repeated contact will cause deoiling of the skin resulting in skin inflammation, rashes or dermatitis.

INGESTION: Swallowing material may cause burning feeling, resulting in irritation, reddening and possible chemical burns to the mouth, throat, and mucous membrane. Material may cause sickness and upset stomach.

INHALATION: Breathing of SO₂ vapors may cause sickness, sneezing, or irritation to the nose, throat and lungs.

CARCINOGENICITY: Not listed under OSHA, IARC, or NTP.

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Wash eyes immediately with running water, including under the eyelids for 15 minutes. **Get immediate medical attention.**

SKIN CONTACT: Wash area with running water for 5 to 10 minutes. contaminated clothing should be washed before reuse.

INGESTION (SWALLOWING): Give 2 to 3 cups of dilute sodium carbonate or bicarbonate solution to drink, do not induce vomiting. **Seek medical assistance.**

INHALATION (BREATHING): Move away from vapors to fresh air source. Rest until normal breathing is restored. If breathing has stopped, administer artificial respiration and oxygen. **Seek medical assistance.**

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: > 300°C

Flammable Limits: Not established

Extinguishing Media: Water, foam, CO₂ or dry chemical.

Special Fire Fighting Procedures: Cool material with water. It burns only when hot. Use self contained breathing apparatus.

Unusual Fire Explosion Hazard: Product burns to form oxides of carbon, sulfur containing hydrocarbons, hydrocarbons and soot.

Auto Ignition Temperature: None established

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Contain spilled liquid with sand or earth. Place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Maybe neutralized with soda ash, TSP or bicarbonate of soda.

SECTION 7 - HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Spilled material is slippery on walkways. Avoid breathing vapor/mist. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials and in iron, SS or acid resistant fiberglass tanks.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators to avoid breathing vapors/mist.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate vapors/mist from the work area.

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION cont'd

SKIN AND EYE PROTECTION:

Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from vapors/mist. Safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE GUIDELINES: Unknown for Product

Sulfuric Acid TWA (OSHA) 1 mg/m³

Sulfur Dioxide TWA (AGGIH) 2 ppm

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: > 572°F (300°C)

Vapor Pressure (MM Hg): 15 @ 25°C; 30 @ 90°C

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H2O=1): 1.06

Percent Volatile by Volume (%): 70.5

Melting Point: Not Applicable

Evaporation Rate (Butyl Acetate=1): Unknown

Solubility in Water: Complete, may gel

pH: >2.0

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperature of pressure.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: None Known

KEEP AWAY FROM FROM: Strong Oxidizing agents and reducing agents.

CONDITIONS TO AVOID: Product is a corrosive acid if mixed with water. Product generates heat with alkaline materials.

SECTION 11 - TOXICOLOGICAL INFORMATION

Oral (Mouse) LD₅₀ 1407 mg/kg
Oral (RAT) LD₅₀ 650 mg/kg
Dermal (Rabbit) 631 mg/kg

Sulphuric Acid
Oral (Rat) LD₅₀ 472 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

Not available

SECTION 13 - DISPOSAL CONSIDERATIONS

Product is biodegradable, Wash away residue with lots of water. If neutralized, may be dispose of as non-hazardous. Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

DOT HAZARD CLASS: Corrosive 8 UN 2586 Packing Group III

SECTION 15 - REGULATORY INFORMATION

CERCLA REPORTABLE REQUIREMENTS: (RQ) 1,000 lbs as 1.50% max. Sulfuric Acid

SARA TITLE III INFORMATION:

Section 302 Extremely hazardous Substance:

Unlisted except for Sulfuric Acid.

Section 313 Toxic Chemicals: Unlisted except for Sulfuric Acid.

Section 311/312 Hazard Category: Acute Health

SECTION 16 - OTHER INFORMATION

NFPA RATING: 0 = No Hazard - 4 = Severe Hazard

Health 2
Flammability 1
Reactivity 0

Reason for Issue: Changed Date

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