



# MATERIAL SAFETY DATA SHEET

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## SECTION 1 - PRODUCT INFORMATION

**PRODUCT NAME:** NAXSOFT® 98S  
**CHEMICAL NAME:** Benzene sulfonic acid, C<sub>10-16</sub> alkyl derivs.  
**CAS NUMBER:** 68584-22-5  
**PRODUCT CODE:** 3108  
**MSDS NO.:** 1-12113

**ISSUE DATE:** 11/01/05  
**SUPERSEDES:** 07/13/05

## SECTION 2 - HAZARD IDENTIFICATION

**Appearance & Odor:** Thick brown liquid. Mild acidic odor.

**Primary Routes of Exposure:** Skin, Eyes and Respiratory tract.

**Health Hazard Warnings:** DANGER! Corrosive. Causes severe burns to eyes and skin. Eye contact may cause blindness. Harmful if swallowed or inhaled. Vapors are irritating. Exothermic reaction with water and strong alkalis.

**Inhalation:** Inhalation can cause coughing, choking, and variable symptoms of headache, dizziness, and weakness. In high exposure cases, pulmonary swelling, air hunger and tightness in chest may follow, 6 to 8 hour latent period.

**Skin Contact:** Can cause severe burns to skin. Material is extremely destructive to tissue.

**Eye Contact:** Can cause burns unless immediately and thoroughly flushed with water. May cause permanent eye damage. Symptoms include pain, tearing, and photophobia (sensitivity to light).

**Ingestion:** Material is harmful if swallowed. Severe burning pain in the mouth, pharynx and abdomen, followed by vomiting and diarrhea of dark precipitated blood. Choking will occur due to swelling of the throat.

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>CAS REGISTRY NO.</u>	<u>PERCENT</u>
Benzene sulfonic acid, C <sub>10-16</sub> alky derivs.	68584-22-5	> 96
Sulfuric acid	7664-93-9	< 2
Benzene, C <sub>10-16</sub> alkyl derivs.	68648-87-3	< 2

## SECTION 4 - FIRST AID MEASURES

**Eyes:** Immediately flush eyes with water for 15-20 minutes. Hold eyelids apart and roll eyes up and down to assure complete washing. Seek immediate medical attention.

**Skin:** Thoroughly flush the affected area with plenty of water while removing contaminated clothing and equipment. Wash with water for at least 15 minutes. Apply sterile bandages to affected area and treat as a thermal burn. Seek medical attention.

**Inhalation:** Immediately move the patient to fresh air and call a physician. If breathing is difficult, give oxygen. If not breathing, begin artificial respiration.

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## SECTION 4 - FIRST AID MEASURES (CONT.)

**Ingestion:** If swallowed, seek immediate medical attention. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

**Other Specific Instructions:** In the event of exposure, seek medical attention immediately. Do not give chemical antidotes unless directed to do so by the physician. Treat for shock.

## SECTION 5 - FIRE FIGHTING MEASURES

**Flash Point:** > 200 °F      Method: PMCC

**Auto Ignition:** No data available

**Explosive Limits; UEL/LEL:** No data available

**Extinguishing Agents:** Use water spray, dry chemical, carbon dioxide, or foam extinguishing agents.

**Fire & Explosion Hazards:** As in any fire prevent human exposure to fire, smoke, fumes or products of combustion. Firefighters should wear recommended exposure control equipment including a self-contained breathing apparatus. Cool containers with water sprays that are exposed to flames. Avoid placing a solid stream of water on spilled material.

**Hazardous Combustion Products:** Thermal decomposition produces oxides of sulfur and hydrogen sulfide.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Protective Equipment:** Appropriate protective equipment must be worn when handling a spill of **NAXSOFT® 98S**. See Section 8 - Exposure Control, for recommendations.

**Spill or Leak Information:** Absorb spill material with an inert material (i.e. vermiculite, soil, etc.). Sweep or scoop material into containers for disposal. Use water spray to knock down vapors. Neutralize acid with crushed limestone, soda ash, or lime. Flush spill area with plenty of water to a chemical sewer. Note: material foams profusely when hit with a direct stream of water.

## SECTION 7 - HANDLING AND STORAGE

**Handling Conditions:** Prevent all skin and eye contact. Emptied container may retain product residues. Follow all warnings and precautions even after container is emptied.

**Storage Conditions:** Keep container tightly closed when not in use. Store in cool and well ventilated area. Steel is corroded by sulfonic acids and is not recommended for prolonged storage at elevated temperatures since iron and color contamination could result. Dilution with water may increase the corrosivity of the acid. Material will absorb moisture. Avoid freezing.

## SECTION 8 - EXPOSURE CONTROL

**Exposure Limits:** 1.0 mg/m<sup>3</sup>; TWA (sulfuric acid)

**Eye Protection:** Use chemical splash goggles. Wear face shield when transferring material.

**Skin Protection:** Skin contact with material should be minimized through the use of suitable impervious gloves. Butyl rubber or neoprene gloves are recommended. Use chemical resistant protective clothing or apron when handling this material.

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## SECTION 8 - EXPOSURE CONTROL (CONT.)

**Respiratory Protection:** Use a NIOSH approved full-facepiece air-purifying respirator with organic vapor/acid gas cartridge with a dust/mist prefilter. If exposure conditions warrant, wear a self-contained breathing apparatus in the positive pressure mode.

**Ventilation:** Good local exhaust ventilation should be provided.

**Other Protective Equipment:** Safety showers and eye wash stations where material is being handled. Wash hands and face before eating, using tobacco products or using the washroom. Smoke or eat only in designated areas. Take a warm shower and change clothing daily. Clothing and shoes used while handling this material should not be worn or taken away from the workplace.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Thick brown liquid

**Odor:** Mild acidic

**Melting Point:** No data available

**Boiling Point:** > 500° F

**Evaporation Rate (butyl acetate=1):** < 1

**pH:** < 2

**Vapor Pressure:** 15 mmHg @ 25 °C

**Vapor Density (Air=1):** > 1

**Specific Gravity/Density:** 1.06

**Solubility in Water:** Dispersible

**Flash Point:** > 200 °F      Method: PMCC

**Auto Ignition:** No data available

## SECTION 10 - STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of storage and handling.

**Incompatibility:** Exothermic reaction with water and strong alkalis.

**Polymerization:** Not expected to occur.

**Decomposition:** Thermal decomposition produces oxides of sulfur and hydrogen sulfide.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Acute Data:** The information shown in Section 2 - Hazard Identification, is based on toxicity profiles of similar materials or on the components present in this material.

**Ingestion:** Oral (Mouse) LD<sub>50</sub> = 1407 mg/kg

**Sensitization:** This product is not known to cause sensitization.

**Carcinogenicity/Mutagenicity:** This product is not considered to be a human or animal carcinogen.

**Teratogenicity/Reproductive Toxicity:** This product is not known to cause teratogenicity or reproductive toxicity.

## SECTION 12 - ECOLOGICAL INFORMATION

**Ecological Toxicity:** The ecological toxicity of this product is not known. The material should be considered toxic to fish.

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## SECTION 13 - DISPOSAL CONSIDERATIONS

**Waste Disposal:** This product if discarded as supplied, is considered a hazardous waste as defined by RCRA. Characteristic; Corrosive, D002. Dispose of in accordance with local, state and federal regulations.

## SECTION 14 - TRANSPORT CONSIDERATIONS

**Shipping Description:** Alkyl sulfonic acids, liquid with not more than 5 percent free sulfuric acid  
(Benzene sulfonic acid, C<sub>10-16</sub> alky derivs.)

**Hazard Class:** 8

**ID No.:** UN2586

**PG:** III

**Labels:** Corrosive

**Product Reportable Quantity:** 3,225 lbs

## SECTION 15 - REGULATORY CONSIDERATIONS

**OSHA Regulatory Status:** This product is a hazardous chemical under 29 CFR 1910.1200

### SARA Title III

**Section 311/312:** This product is categorized as an immediate health hazard according to EPA under Section 311/312 of SARA

**Section 313:** This product contains the following chemicals subject to 313 reporting:

None above de minimis limit

### CERCLA:

Dodecylbenzenesulfonic acid (< 31%) 27176-87-0  
Sulfuric Acid 7664-93-9

### Pennsylvania Right-to-Know:

Dodecylbenzenesulfonic acid 27176-87-0; Environmental  
Sulfuric Acid 7664-93-9; Environmental

### California Proposition 65:

Not applicable

### Chemical Control Law Status:

All components of this product are listed or are excluded from listing on the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

### WHMIS Ingredient Disclosure List:

Dodecylbenzenesulfonic acid 27176-87-0  
Sulfuric Acid 7664-93-9

**HMIS Health Rating:** 3

**HMIS Fire Rating:** 1

**HMIS Physical Hazard Rating:** 1

**HMIS Other:** N/A

## SECTION 16 - OTHER CONSIDERATIONS

Prepared by Regulatory Staff Phone No.: (814) 238-2424

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**Emergency Phone No.: CHEMTREC 800-424-9300**

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