



MATERIAL SAFETY DATA SHEET

Nease Corporation
10740 Paddys Run Road
Harrison, OH 45030
(513) 738-1255

Product Inquiries: (888) 762-7373

Emergency: CHEMTREC 800-424-9300

SECTION 1 - PRODUCT INFORMATION

PRODUCT NAME: NAXSOFT® 98S
CHEMICAL NAME: Benzene sulfonic acid, C₁₀₋₁₆ 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 ₁₀₋₁₆ alky derivs.	68584-22-5	> 96
Sulfuric acid	7664-93-9	< 2
Benzene, C ₁₀₋₁₆ 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.

MATERIAL SAFETY DATA SHEET

Page 2 of 4

MSDS No.: 1-12113

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/m³; 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.

MATERIAL SAFETY DATA SHEET

Page 3 of 4

MSDS No.: 1-12113

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) LD₅₀ = 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.

MATERIAL SAFETY DATA SHEET

Page 4 of 4

MSDS No.: 1-12113

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, C₁₀₋₁₆ 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.: (888) 762-7373

MSDS No.: 1-12113
Issue Date: 11/01/05

Emergency Phone No.: CHEMTREC 800-424-9300

This information is furnished free of charge and is based on technical data that Nease Corporation believes to be reliable. It is intended for use by trained persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.