



# 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:** NAXCAT® XSA-90  
**CHEMICAL NAME:** Xylenesulfonic acid  
**CAS NUMBER:** 25321-41-9  
**PRODUCT CODE:** 4603  
**MSDS NO.:** 1-11104

**ISSUE DATE:** 11/02/05  
**SUPERSEDES:** 07/13/05

## SECTION 2 - HAZARD IDENTIFICATION

**Appearance & Odor:** Amber to brown liquid. Slight hydrocarbon 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, alcohols and strong alkalis.

**Inhalation:** Inhalation can cause coughing, choking, and variable symptoms of headache, dizziness, and weakness. Pulmonary edema (accumulation of fluids in the lungs) with tightness in the chest, air hunger, dizziness, frothy sputum, and cyanosis may follow, 6 to 8 hour latent period. Physical findings may include moist rales, and low blood pressure. Prolonged or repeated overexposure to xylene may cause kidney and liver damage.

**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>
Xylenesulfonic acid	25321-41-9	80 - 85
Ethylbenzenesulfonic acid	57352-34-8	< 10
Sulfuric acid	7664-93-9	< 4
Dixylyl sulfones	5184-75-8	< 5
Xylene	1330-20-7	< 3
Water	7732-18-5	< 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.

# MATERIAL SAFETY DATA SHEET

Page 2 of 4

MSDS No.: 1-11104

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

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

**Ingestion:** If swallowed, call a physician immediately. 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

**Auto Ignition:** No data available

**Explosive Limits: UEL:** 6.6% (xylene)

**LEL:** 1.0% (xylene)

**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 carbon and sulfur.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Protective Equipment:** Appropriate protective equipment must be worn when handling a spill of **NAXCAT® XSA-90**. 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 proper disposal. Prevent discharge to bodies of water.

## SECTION 7 - HANDLING AND STORAGE

**Handling Conditions:** Prevent all skin and eye contact. Use local exhaust ventilation to prevent exposure to vapors and mists. 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.

## SECTION 8 - EXPOSURE CONTROL

**Exposure Limits:** 1.0 mg/m<sup>3</sup>; TWA Sulfuric acid  
100 ppm; TWA Xylene

**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.

# MATERIAL SAFETY DATA SHEET

Page 3 of 4

MSDS No.: 1-11104

## SECTION 8 - EXPOSURE CONTROL (CONT.)

**Respiratory Protection:** Use a NIOSH approved full-facepiece air-purifying respirator with organic vapor/acid gas cartridge with a particulate 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:** Amber to brown liquid

**Odor:** Slight hydrocarbon odor

**Melting Point:** < 2°C

**Boiling Point:** No data available

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

**pH:** < 1

**Vapor Pressure:** Low

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

**Specific Gravity/Density:** 1.3

**Solubility in Water:** Soluble (-67g/100ml)

**Flash Point:** > 200 °F

**Auto Ignition:** No data available

## SECTION 10 - STABILITY AND REACTIVITY

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

**Incompatibility:** Reacts with strong alkalis. Avoid contact with bleach or other hypochlorites. May cause exothermic polymerization of furan resins. Generates heat of solution when dissolved in water and alcohols.

**Polymerization:** Not expected to occur.

**Decomposition:** When heated to decomposition, will emit toxic oxides of carbon and sulfur.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Acute Data:** The information shown in Section 3 - Hazard Identification, is based on toxicity profiles of similar materials or on the components present in this material.

Xylenesulfonic acid: LD<sub>50</sub> (Intraperitoneal - Mouse) = 500 mg/kg

**Sensitization:** Xylenesulfonic acid is not known to be a sensitizer.

**Carcinogenicity/Mutagenicity:** Xylenesulfonic acid is not known to be a human or animal carcinogen.

**Teratogenicity/Reproductive Toxicity:** Xylene has been found to cause birth defects in laboratory animals.

## 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.: 1-11104

## 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:** Aryl sulfonic acids, liquid with not more than 5 percent free sulfuric acid  
(Xylenesulfonic acid)

**Hazard Class:** 8

**ID No.:** UN2586

**PG:** III

**Labels:** Corrosive

## 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 and delayed health hazard according to EPA under

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

Xylene	1330-20-7
--------	-----------

### CERCLA:

Xylene	1330-20-7
Sulfuric Acid	7664-93-9

### Pennsylvania Right-to-Know:

Xylene	1330-20-7;	Environmental
Sulfuric Acid	7664-93-9;	Environmental

### California Proposition 65:

Ethylbenzene	100-41-4;	Cancer
--------------	-----------	--------

### 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:** Sulfuric Acid 7664-93-9

**HMIS Health Rating:** 3

**HMIS Fire Rating:** 1

**HMIS Reactivity Rating:** 1

**HMIS Other:** NA

## SECTION 16 - OTHER CONSIDERATIONS

Prepared by Regulatory Staff Phone No.: (888) 762-7373

MSDS No.: 1-11104  
Issue Date: 11/02/05

**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.