



# MATERIAL SAFETY DATA SHEET

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SECTION 1 - PRODUCT INFORMATION	
<b>PRODUCT NAME:</b> NAXCAT® CSA-95	ISSUE DATE: 11/02/05
CHEMICAL NAME: Cumenesulfonic acid	SUPERSEDES: 07/12/05
CAS NUMBER: 37953-05-2	
PRODUCT CODE: 4623	
MSDS NO.: 1-11109	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS			
<u>CHEMICAL NAME</u>	<u>CAS REGISTRY NO.</u>	<u>PERCENT</u>	<u>EXPOSURE LIMITS</u>
Cumenesulfonic acid	37953-05-2	> 94	None established
Sulfuric acid	7664-93-9	< 2	1.0 mg/m <sup>3</sup> ; TWA
Cumene	98-82-8	< 2	50 ppm; TWA
Water	7732-18-5	< 2	None established

SECTION 3 - HAZARD IDENTIFICATION	
<b>Appearance &amp; Odor:</b> Amber liquid. Slight hydrocarbon odor.	
<b>Primary Routes of Exposure:</b> Skin, Eyes and Respiratory Tract.	
<b>Health Hazard Warnings:</b> 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.	
<b>Inhalation:</b> 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 cumene may cause kidney and liver damage.	
<b>Skin Contact:</b> Can cause severe burns to skin. Material is extremely destructive to tissue.	
<b>Eye Contact:</b> Can cause burns unless immediately and thoroughly flushed with water. May cause permanent eye damage. Symptoms include pain, tearing, and photophobia (sensitivity to light).	
<b>Ingestion:</b> 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 4 - FIRST AID MEASURES	
<b>Eyes:</b> 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.	
<b>Skin:</b> 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.	

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## 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:** Give the patient 1-2 glasses of water (8-16 ozs.) and call a physician. 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:** 6.5% (cumene)    **LEL:** 0.9% (cumene)

**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® CSA-95**. 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 a container for disposal. Flush spill area with plenty of water to a chemical sewer. Collect water for proper disposal. Prevent discharge to bodies 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.

## SECTION 8 - EXPOSURE CONTROL

**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/MSHA 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:** Amber liquid

**Odor:** Slight hydrocarbon odor

**Melting Point:** No data available

**Boiling Point:** No data available

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

**pH:** < 1

**Vapor Pressure:** Low

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

**Specific Gravity/Density:** No data available

**Solubility in Water:** Soluble (exothermic)

## SECTION 10 -STABILITY AND REACTIVITY

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

**Incompatibility:** Reacts with water, alcohols and strong alkalis. Avoid contact with bleach or other hypochlorites. May cause exothermic polymerization of furan resins.

**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.

**Sensitization:** No information available.

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

**Teratogenicity/Reproductive Toxicity:** Cumenesulfonic acid 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 to be toxic to fish.

