

# SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

## **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier Chemical Name** Trade name CAS No.

Benzene sulfonic acid, C10-16 alkyl derivs NAXSOFT® 98S

Relevant identified uses of the substance or mixture and uses advised against Identified use(s) None Uses advised against

Details of the supplier of the safety data sheet **Company Identification** 

Telephone **Telephone (Product Information)** Fax E-Mail (competent person)

**Emergency telephone number** Emergency Phone No.

68584-22-5

Surfactant

Catexel Nease LLC 10740 Paddys Run Road Harrison, OH 45030

(513) 738-1255 (888) 762-7373 (513) 587-2828 techservice@catexel.com

(513) 738-1255 CHEMTREC 24 hr. (800) 424-9300

### **SECTION 2: HAZARDS IDENTIFICATION**

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) Label elements Hazard Symbol

Signal word(s)

Hazard statement(s)

Precautionary statement(s)

Skin Corr. 1C; Eye Dam. 1; Met. Corr. 1



#### DANGER

Causes severe skin burns and eye damage. May be corrosive to metals.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Seek medical treatment.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation (redness, rash, blistering) develops, get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Not classified as PBT or vPvB.

None

Other hazards Additional Information



## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous ingredient(s)	%W/W	CAS No.	Hazard statement(s)
Benzenesulfonic acid, C10-16-alkyl derivs	>96%	68584-22-5*	Causes severe skin burns and eye damage.
Sulfuric Acid	<2%	7664-93-9	Causes severe skin burns and eye damage.

\*Predominately includes Dodecyl benzene sulfonic acid (CAS# 27176-87-0)

Additional Information - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below.

- Benzene, C10-16 alkyl derives (68648-87-3) <2%

## **SECTION 4: FIRST AID MEASURES**

Description of first aid measures	
Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is laboured, administer oxygen. If symptoms occur obtain medical attention.
Skin Contact	Wash affected skin with plenty of water. Remove contaminated clothing immediately. If irritation (redness, rash, blistering) develops, get medical attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	If ingested, rinse mouth. Do not induce vomiting. Seek medical treatment.
Most important symptoms and effects, both acute and delayed	Causes severe skin burns and eye damage.
Indication of any immediate medical attention and special treatment needed	None

## **SECTION 5: FIRE-FIGHTING MEASURES**

Extinguishing media	
-Suitable Extinguishing Media -Unsuitable Extinguishing Media	Extinguish with waterspray, dry chemical, sand or carbon dioxide. None anticipated.
Special hazards arising from the substance or mixture	Combustion or thermal decomposition will evolve toxic vapours.
Advice for fire-fighters	Fire fighters should wear complete protective clothing including self- contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE M	EASURES
Personal precautions, protective equipment and emergency procedures	Put on protective equipment before entering danger area.
Environmental precautions	Do not allow to enter drains, sewers or watercourses.
Methods and material for containment and cleaning up	Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a container for disposal or recovery. Cautiously neutralize remainder. Then wash away with plenty of water. If possible prevent water running into sewers.
Reference to other sections Additional Information	None None



## **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling	Do not get in eyes, on skin, or on clothing. Wear protective gloves / protective clothing / eye protection / face protection.
Conditions for safe storage, including any incom	patibilities
-Storage Temperature	Store at room temperature.
-Incompatible materials	Attacks many materials and clothing. Keep away from oxidising agents. Keep container tightly closed and dry.
Specific end use(s)	Surfactant

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control parameters**

### Occupational Exposure Limits

		LTEL (8 hr TWA ppm)		STEL (ppm)		
		OSHA	ACGIH	OSHA	ACGIH	
SUBSTANCE.	CAS No.	(PEL)	(TLV)	(PEL)	(TLV)	Note:
Sulfuric acid	7664-93-9	1 mg/m³	0.2 mg/m <sup>3 (T)</sup>			<sup>(T)</sup> Thoracic fraction

### Recommended monitoring method Exposure controls

#### Appropriate engineering controls

Personal protection equipment

Eye/face protection



Skin protection (Hand protection/ Other)



Respiratory protection



Use gloves with insulation for thermal protection, when needed.

Thermal hazards

**Environmental Exposure Controls** 

Do not allow to enter drains, sewers or watercourses.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Colour	Brown.
Odour	Mild Acidic.
Odour Threshold (ppm)	Not available.
pH (Value)	<2
Melting Point (°C) / Freezing Point (°C)	Not available.
Boiling point/boiling range (°C):	260 (>500°F)
Flash Point (°C)	>93 (200 °F)

NIOSH 5043

Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.

The following to be used as necessary: Goggles giving complete protection to eyes. Full face shield.

The following to be used as necessary: Gloves (Neoprene, Butyl rubber, or Natural rubber). Chemical protection suit. Wear safety or chemical resistant shoes or boots. Check with protective equipment manufacturer's data.

No personal respiratory protective equipment normally required.



Evaporation rate (butyl acetate=1) Flammability (solid, gas) Explosive limit ranges Vapour Pressure (Pascal) Vapour Density (Air=1) Density (g/ml) Solubility (Water) Solubility (Water) Partition Coefficient (n-Octanol/water) Auto Ignition Temperature (°C) Decomposition Temperature (°C) Kinematic Viscosity (cSt) @ 40°C Explosive properties Oxidising properties

#### <1 Not applicable. Not available. >1 1.06 Dispersible Not available. Not explosive. Not oxidising.

Not available.

Oral: LD50 > 5 g/kg-bw

of 28 days,rat).

# SECTION 10: STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous Decomposition Product(s)

Other information

## Stable under normal conditions. Stable. None anticipated. Avoid contact with heat and ignition sources. Reacts with -Alkalis. Heat is generated when mixed with water. Oxides of Sulphur and Hydrogen sulfide

### **SECTION 11: TOXICOLOGICAL INFORMATION**

Exposure routes: Inhalation, Skin Contact, Eye Contact

Substances in preparations / mixtures

Benzenesulfonic acid, C10-16-alkyl derivs (CAS No. 68584-22-5)

Acute toxicity (By analogy with similar materials)

	Dermal: LD50 >5 g/kg-bw Inhalation: LC50 >1.9 mg/l (4 hr exposure)
Irritation/Corrosivity Sensitization	Corrosive (Skin and Eyes) It is not a skin sensitizer.
Repeated dose toxicity (By analogy with similar materials)	NOAEL: = 500 mg/kg bw/day (29 days, oral, rat) NOAEL = 49.5 mg/m3 (6 hours per day, 5 days/week for a total

#### Carcinogenicity

Г	NTP	IARC	ACGIH		NIOSH
	INIT	IARC	ACGIN	USHA	NICSH
	No.	No.	No.	No.	No.

**Mutagenicity** (By analogy with similar materials) **Toxicity for reproduction** (By analogy with similar materials) There is no evidence of mutagenic potential. Not to be expected.

It is unlikely to present a carcinogenic hazard to man.

Sulfuric acid (CAS No. 7664-93-9)

Acute toxicity

Irritation/Corrosivity
Sensitization
Repeated dose toxicity
Carcinogenicity

Oral: LD50 = 2140 mg/kg-bw (rat) Dermal: No data Inhalation: LC50 = 0.37-0.42 mg/l (rat)

Corrosive (Skin and Eyes) Skin sensitization has been reported in humans. No data. NOAEL (rat): ≥ 240 mg/kg (Fischer 344)

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NTP	IARC	ACGIH	OSHA	NIOSH
Listed	Group 1	Group 2A	No.	No.

### Mutagenicity

**Toxicity for reproduction** 

There is no evidence of mutagenic potential.

NOAEL: 20 mg/m<sup>3</sup> (rabbit) (New Zealand White) NOEL: 20 mg/m<sup>3</sup> (rabbit) (New Zealand White)

# SECTION 12: ECOLOGICAL INFORMATION

Benzenesulfonic acid, C10-16-alkyl derivs (CAS No	o. 68584-22-5) - (By analogy with similar materials)
Short term	LL50 (96 hour):  >10000 mg/L ( <i>Cyprinodon variegatus</i> ) EC50 (48 hour): >1000 mg/l ( <i>Daphnia magna,</i> mobility <i>)</i> EC50 (96 hour): >1000 mg/l ( <i>Pseudokirchnerella subcapitata</i> )
Long Term	Scientifically unjustified
Persistence and degradability Bioaccumulative potential Mobility in soil Results of PBT and vPvB assessment <u>Sulfuric acid (CAS No. 7664-93-9)</u>	Readily biodegradable. The product has low potential for bioaccumulation. The substance has high mobility in soil. Not classified as PBT or vPvB.
Short term	LC50 (96 hour): 42.0 mg/l (96 hour) ( <i>Gambusia affinis</i> ) EC50 ( 24  hour): 29.0 mg/l ( <i>Daphnia magna</i> ) EC50 (48 hour): 29 mg/l ( <i>Pandalus montagui</i> ))
Long Term	Scientifically unjustified
Persistence and degradability Bioaccumulative potential Mobility in soil Results of PBT and vPvB assessment Other adverse effects	Not readily biodegradable. The substance has no potential for bioaccumulation. The substance has high mobility in soil. Not classified as PBT or vPvB. None known.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

Additional Information

**SECTION 14: TRANSPORT INFORMATION** 

	Land transport (U.S. DOT)	Sea transport (IMDG)	Air transport <u>(ICAO/IATA)</u>
UN number	2586	2586	2586
Proper Shipping Name	Alkyl sulfonic acids, liquid with not more than 5 percent free sulfuric acid (Benzene sulfonic acid, C10- 16 alkyl derivs.), RQ	Alkyl sulphonic acids, liquid with not more than 5 percent free sulphuric acid (Benzene sulphonic acid, C10-16 alkyl derivs.)	Alkyl sulphonic acids, liquid with not more than 5 percent free sulphuric acid (Benzene sulphonic acid, C10-16 alkyl derivs.)
Transport hazard class(es)	8	8	8
Packing group	III	III	III
Hazard label(s)	Corrosive	Corrosive	Corrosive
Environmental hazards	No.	No.	No.
Special precautions for user	None assigned	None assigned	None assigned

None known.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable



## **SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: On active TSCA list

Canada Domestic Substance List (DSL) - Listed

#### Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Dodecyl benzene sulfonic acid	27176-87-0	>75	1,000
Sulfuric acid	7664-93-9	< 2%	1,000

### SARA 311/312 - Hazard Categories:

Fire
гие

□ Sudden Release □ Reactivity □ Immediate (acute) □ Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

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Chemical Name	CAS No.	Typical %wt.

#### SARA 302 - Extremely Hazardous Substances(40 CFR 355):

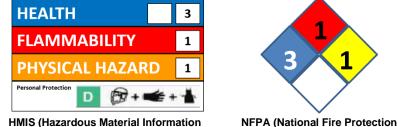
Chemical Name	CAS No.	Typical %wt.
Sulfuric acid	7664-93-9	< 2%

## **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 1

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**Additional Information:** 



us Material Information NFPA (National Fire Poster) Association)

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