

## NAXCAT<sup>®</sup> 326L

## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

#### **Product identifier**

**Chemical Name** Trade name CAS No.

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

#### 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.

Toluenesulfonic acid NAXCAT® 326L 88-20-0 & 104-15-4

Nease Co. LLC 10740 Paddys Run Road Harrison, OH 45030

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

Classification of the substance or mixture	
OSHA HCS (29 CFR 1910.1200)	Skin Corr. 1C; Eye Dam. 1; Met. Corr. 1
Label elements	
Hazard Symbol	
	<b>^</b>

DANGER Signal word(s) Hazard statement(s) Causes severe skin burns and eye damage. May be corrosive to metals. Precautionary statement(s) Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. 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. Immediately call a POISON CENTER or doctor/physician. Other hazards Not classified as PBT or vPvB. **Additional Information** Contains residual toluene. Studies in animals have shown that repeated exposures produce adverse reproductive effects. However, given the corrosive / irritating nature of this product and the relatively low



concentration of toluene present, this product is not considered to pose a reproductive risk to humans.

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

Hazardous ingredient(s)	%W/W	CAS No.	Hazard statement(s)
o.p - Toluenesulfonic acid	63 - 70	88-20-0	May be corrosive to metals.
0,p - Toldenesullonic acid	03 - 70	104-15-4	Causes severe skin burns and eye damage.
Sulfuric acid	<2%	7664-93-9	Causes severe skin burns and eye damage.
Water	27 - 30	7732-18-5	Not applicable

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.

- Toluene (CAS No. 108-88-3) <1%

## **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. 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	None
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 MEASURES

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.

Conditions for safe storage, including any incompatibilities

- -Storage Temperature
- -Incompatible materials

Attacks many materials and clothing. Keep away from oxidising agents. Keep container tightly closed and dry.

Store at room temperature.

Specific end use(s)

Polymers and coatings catalyst

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

#### **Occupational exposure limits**

SUBSTANCE.	CAS No.	LTEL (8 hi	· TWA ppm)	STEL	(ppm)	Note:
SUBSTANCE.	CAS NO.	PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note.
Sulfuric acid	7664-93-9	1 mg/m³				(T)Thoracic fraction
Toluene	108-88-3	200	20	300 ceiling		500 10min. peak

#### **Recommended monitoring method**

Exposure controls

Appropriate engineering controls

#### Personal protection equipment

Eye/face protection



NIOSH 5043; NIOSH 7903; NIOSH 1500

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 or Natural rubber). Chemical protection suit. Wear safety or chemical resistant shoes or boots. Check with protective equipment manufacturer's data.

Skin protection (Hand protection/ Other)



Respiratory protection



No personal respiratory protective equipment normally required.

Thermal hazards

**Environmental Exposure Controls** 

Use gloves with insulation for thermal protection, when needed.

Do not allow to enter drains, sewers or watercourses.



## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold (ppm) pH (Value) Melting Point (°C) / Freezing Point (°C) Boiling point/boiling range (°C): Flash Point (°C) Evaporation rate Flammability (solid, gas) Explosive limit ranges Vapour Pressure (Pascal) Vapour Density (Air=1) Density (g/ml) Solubility (Water) Solubility (Other) Partition Coefficient (n-Octanol/water) Auto Ignition Temperature (°C) Decomposition Temperature (°C) Kinematic Viscosity (cSt) @ 40°C Explosive properties Oxidising properties

Liquid Amber to Brown. Slight hydrocarbons Odour. Not available. <1 Not available. Not available. >93 (>200 °F) [Open cup] <1 (butyl acetate=1) Not applicable. Not available. Not available. >1 1.2 Soluble Not available. Not available. Not available. Not available. Not available. Not explosive. Not oxidising.

Not available.

Other information

### SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	None anticipated.
Conditions to avoid	Incompatible materials.
Incompatible materials	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.
Hazardous Decomposition Product(s)	Carbon monoxide, Carbon dioxide, Sulphur oxides, Acrid

smoke

## **SECTION 11: TOXICOLOGICAL INFORMATION**

Exposure routes: Inhalation, Skin Contact, Eye Contact

#### Substances in preparations / mixtures

Toluene-4-sulfonic acid (CAS No. 104-15-4)

Acute toxicity (By analogy with similar materials)

Oral: LD50  $\geq$  1104 mg/kg-bw (rat) Dermal: LD50 >2 g/kg-bw (rabbit) Inhalation: LC50 > 100 mg= saturated (Vapor), 8 hour (rat)

Irritation/Corrosivit	v	Corrosive (Skin and Eyes)		
Sensitization	•	It is not a skin sensitizer.		
Repeated dose toxi	city	NOAEL: > 500 mg/kg bw/day (28 days/week, oral, rat)		
Carcinogenicity		NOAEL (rat): ≥ 240 mg/kg (Fischer 344		
NTP	IARC	ACGIH	OSHA	NIOSH

No.



### Mutagenicity Toxicity for reproduction

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

Acute toxicity

Irritation/Corrosivity	
Sensitization	
Repeated dose toxicity	

There is no evidence of mutagenic potential. No effects to the reproductive system.

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

NOAEL (rat): > 240 mg/kg (Fischer 344)

Corrosive (Skin and Eyes) Skin sensitisation has been reported in humans.

No data.

#### Carcinogenicity

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

Toluene-4-sulfonic acid (CAS No. 104-15-4)	
Short term	LC50 (96 hour): >500 mg/L (Leuciscus idus melanotus)
	EC50 (48 hour): >103 mg/l ( <i>Daphnia magna,</i> mobility) - (By analogy with similar materials)
	EC50 (72 hour): 70 mg/l ( <i>Pseudokirchnerella subcapitata</i> ) - (By analogy with similar materials)
Long Term	Scientifically unjustified
Persistence and degradability	Readily biodegradable.
Bioaccumulative potential	The product has low potential for bioaccumulation.
Mobility in soil	The substance has high mobility in soil.
Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
Sulfuric acid (CAS No. 7664-93-9)	
Short term	LC50 (96 hour): 42.0 mg/l (96 hour) (Gambusia affinis)
	EC50 (24 hour): 29.0 mg/l (Daphnia magna)
	EC50 (48 hour): 29 mg/l (Pandalus montagui))
Long Term	Scientifically unjustified
Persistence and degradability	Not readily biodegradable.
Bioaccumulative potential	The substance has no potential for bioaccumulation.
Mobility in soil	The substance has high mobility in soil.
Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
Other adverse effects	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	None known.



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## **SECTION 14: TRANSPORT INFORMATION**

	Land transport	Sea transport	Air transport
	(U.S. DOT)	(IMDG)	(ICAO/IATA)
UN number	2586	2586	2586
Proper Shipping Name	ARYLSULFONIC ACIDS,	ARYLSULPHONIC ACIDS,	ARYLSULPHONIC
	LIQUID	LIQUID	ACIDS, LIQUID
	with not more than 5%	with not more than 5% free	with not more than 5%
	free sulfuric acid	sulphuric acid	free sulphuric acid
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 known.	None known.	None known.

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

### **SECTION 15: REGULATORY INFORMATION**

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

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt. Canada Domestic Substance List (DSL) - Listed

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

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None			

#### SARA 311/312 - Hazard Categories:

🗌 Fire	Sudden Release	Reactivity	🛛 Immediate (acute)	Chronic (delayed)
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SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
Toluene	108-88-3	< 1%

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

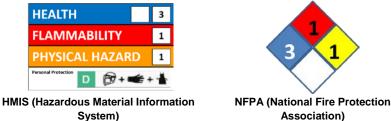
Chemical Name	CAS No.	Typical %wt.
Sulfuric acid	7664-93-9	< 2%

### **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 1-16.

Date of preparation: May 26, 2014

**Additional Information:** 



System)

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