

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier Chemical Name Trade name CAS No.

o,p - Toluenesulfonic acid Naxcat® 330L

Relevant identified uses of the substance or mixture and uses advised against Identified use(s) 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.

88-20-0 & 104-15-4

Catalyst for polymers and coatings. None

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)

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

Label elements Hazard Symbol

Signal word(s)

Hazard statement(s)

Precautionary statement(s)



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

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.

Not classified as PBT or vPvB.

None

Additional Information

Other hazards

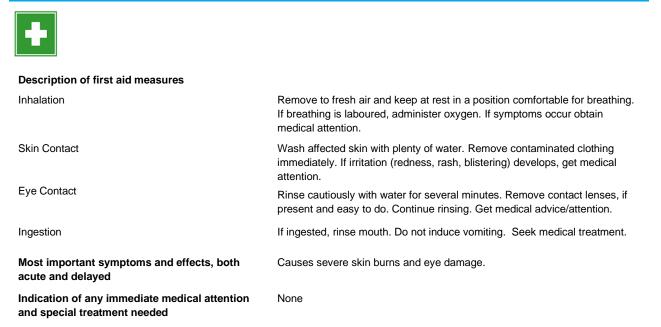


SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredient(s)	%W/W	CAS No.	Hazard statement(s)
a n. Taluanagulfania gaid	60-70%	88-20-0	May be corrosive to metals
o,p - Toluenesulfonic acid	60-70%	104-15-4	Causes severe skin burns and eye damage.
Sulfuric acid	<1%	7664-93-9	Causes severe skin burns and eye damage.
Water	45-55%	7732-18-5	Not applicable

Additional Information - None

SECTION 4: FIRST AID MEASURES



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	None anticipated.
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. Wash the spillage area with 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	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)	Catalyst for paints and coatings.	

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits

		LTEL (8 hr	· TWA ppm)	STEL	(ppm)		
SUBSTANCE.	CAS No.	PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:	
Sulfuric acid	7664-93-9	1 mg/m ³					
Recommended mo Exposure controls	-	ł	NIOSH 504	43			
Appropriate engine	eering controls		Local exha	Local exhaust required.			
Personal protectio	n equipment						
Eye/face protection				The following to be used as necessary: Goggles giving complete protection to eyes. Full face shield.			
Skin protection (Hand protection/ Other)			rubber). C	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.			
Respiratory protection		No person	al respiratory prote	ctive equipment n	ormally required.		
Thermal hazards			Use glove	s with insulation for	thermal protectio	n, when needed.	
Environmental Exp	oosure Controls		Do not allo	w to enter drains, s	sewers or waterco	urses.	
ECTION 9: PH	YSICAL AND	CHEMICAL P	ROPERTIES				
Information on ba	asic physical an	d chemical prope	erties				
Appearance Colour Odour Odour Threshol	d (ppm)			Liquid Clear, Pale yello Slight hydrocarb Not available.			

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) Clear, Pale yellow Slight hydrocarbon Odour Not available. <1 Not available Not available. >93 (>200 °F) [Open cup] Not available. Not applicable.



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

Not applicable. 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 > 1104 mg/kg-bw (rat) Dermal: LD50 >2 g/kg-bw (rabbit) Inhalation: LC50 > 100 mg= saturated (Vapor), 8 hour (rat)

Carcinogenicity NOAEL (rat): > 240 mg/kg (Fisch	r 344		
	NOAEL (rat): ≥ 240 mg/kg (Fischer 344		
Repeated dose toxicity NOAEL: > 500 mg/kg bw/day (28	days/week, oral, rat)		
Sensitization It is not a skin sensitizer.			
Irritation/Corrosivity Corrosive (Skin and Eyes)			

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity **Toxicity for reproduction**

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

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 sensitisation has been reported in humans. No data.

NOAEL (rat): \geq 240 mg/kg (Fischer 344)



NTP	IARC	ACGIH	OSHA	NIOSH
Listed	Group 1	Group 2A	No.	No.
Mutagenicity There is no evidence of mutagenic potential.				
Toxicity for reprodu	y for reproduction NOAEL: 20 mg/m ³ (rabbit) (New Zealand White)			

NOEL: 20 mg/m³ (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 <i>)</i> - (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) (<i>Gambusia affinis</i>)
	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.		

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	ARYLSULFONIC ACIDS, LIQUID with not more than 5% free sulfuric acid	ARYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid	ARYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid
Transport hazard class(es)	8	8	8
Packing group	111	111	III
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] Fire 🛛 Sudden Release 🗌 Reactivi		ty 🛛 Immediate (acute)		Chronic (delayed)
SARA 313 - Toxic Chemicals (40 CFR 372):						
	Chemical Name			CAS No.		Typical %wt.
	None					
SARA 302 - Extremely Hazardous Substances(40 CFR 355):						
		Chemical Name		CAS	No.	Typical %wt.

7664-93-9

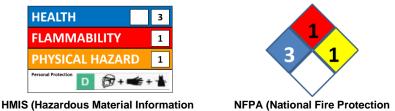
Sulfuric acid

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1

Date of preparation: December 14, 2023

Additional Information:



System)

Association)

< 2%

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Catexel Nease LLC gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Catexel Nease LLC accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.