

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier Chemical Name Trade name CAS No.

Toluenesulfonic acid Naxcat[®] TSA 95 88-20-0 and 104-15-4

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

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. vised against Catalyst in the manufacture of phthalates and other plasticizers.

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)

DANGER

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.

Other hazards



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	>95% 88-20-0		May be corrosive to metals.
o,p - Toldenesullonic acid	>95%	104-15-4	Causes severe skin burns and eye damage.
Sulfuric acid	<2%	7664-93-9	Causes severe skin burns and eye damage.
Water	<2%	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 Extinguish with waterspray, dry chemical, sand or carbon dioxide. -Unsuitable Extinguishing Media None anticipated. Special hazards arising from the substance or mixture None anticipated.

Advice for fire-fighters

Fire fighters should wear complete protective clothing including selfcontained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment	Put on protective equipment before entering danger area.
and emergency procedures	



Environmental precautions

Do not allow to enter drains, sewers or watercourses.

Methods and material for containment and
cleaning upContain 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 InformationNone

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)	Hand Cleaners, Industrial Cleaners, Metal Prep and Working, Textile Dye Manufacturing, Polymers and Coatings.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits

		LTEL (8 hi	r TWA ppm)	STEL	(ppm)	
SUBSTANCE.	CAS No.	PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:
Sulfuric acid	7664-93-9	1 mg/m³	0.2 mg/m ^{3 (T)}			(T)Thoracic fraction
Toluene	108-88-3	200	20	300 ceiling		500 10min. peak
Recommended mo Exposure controls	nitoring methoo	i	NIOSH 504	43; NIOSH 7903		
Appropriate engine	ering controls		Local exha	aust required.		
Personal protection	n equipment					
Eye/face protectic	on			ing to be used as n to eyes. Full face s	,	s giving complete
Skin protection (H	land protection/ (Other)	rubber). C	hemical protection	suit. Wear safety of	(Neoprene or Natural or chemical resistant nt manufacturer's data.
Respiratory protect	ction		No person	al respiratory prote	ctive equipment n	ormally required.
Thermal hazards			Use glove	s with insulation fo	r thermal protectio	n, when needed.
Environmental Exp	osure Controls		Do not allo	ow to enter drains,	sewers or waterco	urses.



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

Semi-Solid. Amber / Brown Slight hydrocarbons Odour Not available. <1 106-107 140°C @ 20 mmHg >184 (>363 °F) [Open cup] <1 (butyl acetate =1) Not available. Not available. Low >1 ≈1.3 Soluble, -67g/100 ml 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. Generates heat of solution when dissolved in water and alcohols. May cause exothermic polymerisation of furan resin.
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/Corrosivity Sensitization Repeated dose toxicity) Carcinogenicity Corrosive (Skin and Eyes) It is not a skin sensitizer. NOAEL: > 500 mg/kg bw/day (28 days/week, oral, rat) NOAEL (rat): ≥ 240 mg/kg (Fischer 344

Γ	NTP	IARC	ACGIH	OSHA	NIOSH
	No.	No.	No.	No.	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. Residual toluene in this formulation is not expected to present a reproductive risk given the corrosive / irritating nature of this product.

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.

Carcinogenicity

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

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/m³ (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) - (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 (<i>Pandalus montagui</i>))
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	Sea transport	Air transport
	(U.S. DOT)	(IMDG)	<u>(ICAO/IATA)</u>
UN number	2586	2586	2586
Proper Shipping Name	ARYLSULFONIC	ARYLSULPHONIC ACIDS,	ARYLSULPHONIC
	ACIDS, 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	111	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: 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)
	None			
SA	ARA 311/312 - Hazard Categories:			
		. 51.		

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

Date of preparation: December 14, 2023

Additional Information:

HEALTH	3
FLAMMABILITY	
PHYSICAL HAZARD	1
Personal Protection D 😥 + 🖛 +	-



HMIS (Hazardous Material Information System)

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