

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical NameToluenesulfonic acidTrade nameNaxcat® TSA 65WCAS No.88-20-0 and 104-15-4

Relevant identified uses of the substance or mixture and uses advised against

Identified use(s)

Catalyst for hand cleaners, industrial cleaners, metal prep and

working, textile dye manufacturing, polymers and coatings

Uses advised against None

Details of the supplier of the safety data sheet

Company Identification Nease Co. LLC

10740 Paddys Run Road Harrison, OH 45030

Telephone (513) 738-1255 Telephone (Product Information) (888) 762-7373

Fax (513) 587-2828
E-Mail (competent person) techservice@neaseco.com

Emergency telephone number

Emergency Phone No. (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)

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

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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	60-75%	88-20-0	May be corrosive to metals.
o,p - Tolueriesullorlic acid		104-15-4	Causes severe skin burns and eye damage.
Sulfuric acid	<2%	7664-93-9	Causes severe skin burns and eye damage.
Water	25-35	7732-18-5	Not applicable

Additional Information - 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 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 precautionsDo not allow to enter drains, sewers or watercourses.

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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 None Additional Information 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 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 hr 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 monitoring method

Exposure controls

NIOSH 5043; NIOSH 7903

Appropriate engineering controls Local exhaust required.

Personal protection equipment

Eye/face protection The following to be used as necessary: Goggles giving complete

protection to eyes. Full face shield.

Chin protection (Hand protection/ Other)

Skin protection (Hand protection/ Other)

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 personal respiratory protective equipment normally required.

(i)

Thermal hazards

Use gloves with insulation for thermal protection, when needed.

Environmental Exposure ControlsDo not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Liquid

Colour Amber / Brown

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Odour Slight hydrocarbons Odour

Odour Threshold (ppm) Not available.

pH (Value)

Melting Point (°C) / Freezing Point (°C)

Not available
Boiling point/boiling range (°C):

Not available

Flash Point (°C) >93 (>200 °F) [Open cup]
Evaporation rate <1 (butyl acetate =1)
Flammability (solid, gas) Not applicable.
Explosive limit ranges Not available.

Vapour Pressure (Pascal)

Vapour Density (Air=1)

Vapour Density (Air=1)

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Vapour Density (Air=1)

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

Not available.

Not available.

Not available.

Oxidising properties Not explosive

Oxidising properties Not oxidising.

Other information Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactionsNone anticipated.Conditions to avoidIncompatible 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.

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Soluble

Not available.

Hazardous Decomposition Product(s)

Carbon monoxide, Carbon dioxide, Sulphur oxides, Acrid

smok

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)

Irritation/CorrosivityCorrosive (Skin and Eyes)SensitizationIt is not a skin sensitizer.

Repeated dose toxicity) 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.	No.	No.	No.	No.

Mutagenicity There is no evidence of mutagenic potential.

Toxicity for reproductionNo 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.

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

Acute toxicity Oral: LD50 = 2140 mg/kg-bw (rat)

Dermal: No data

Inhalation: LC50 = 0.37-0.42 mg/l (rat)

Irritation/Corrosivity Corrosive (Skin and Eyes)

Sensitization Skin sensitisation has been reported in humans.

Repeated dose toxicity No data.

Carcinogenicity NOAEL (rat): ≥ 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 reproduction 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 (Daphnia magna, mobility) - (By analogy with

similar materials)

EC50 (72 hour): 70 mg/l (Pseudokirchnerella subcapitata) - (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 (U.S. DOT)	Sea transport (IMDG)	Air transport (ICAO/IATA)
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	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 ☐ Chronic (delayed)

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 21, 2014

Additional Information:



HMIS (Hazardous Material Information System)



NFPA (National Fire Protection Association)

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