

## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

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

**Product identifier** 

Chemical Name Toluenesulfonic acid and Xylenesulfonic acid

NAXCAT® MOD ACID-35 Trade name

CAS No. Mixture EINECS No. Mixture

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

Identified use(s) Catalyst in the production of foam insulation panels.

Uses advised against

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 +1-513-587-2828

E-Mail (competent person) techservice@neaseco.com

**Emergency telephone number** 

Emergency Phone No. Monday - Friday, 8 am - 4:30 p.m. (EST): 513-738-1255

CHEMTREC 24 hr. +1 (800) 424-9300

## **SECTION 2: HAZARDS IDENTIFICATION**

Classification of the substance or mixture

Skin Corr. 1C OSHA HCS (29 CFR 1910.1200) Met. Corr. 1

Label elements

Hazard Symbol



Hazard statement(s) Causes severe skin burns and eye damage.

May be corrosive to metals.

Do not breathe dust/fume/gas/mist/vapours/spray. Precautionary statement(s)

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 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

**Additional Information** None known.

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

Hazardous ingredient(s)	%W/W	CAS No.	Hazard statement(s)
o, p-Toluenesulfonic acid	61%	88-20-0 104-15-4	Causes severe skin burns and eye damage. Causes serious eye damage.
Xylenesulfonic acid	31%	25321-41-9	May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage.
Sulfuric acid	<2%	7664-93-9	Causes severe skin burns and eye damage.

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% - Xylene (CAS No. 1330-20-7) <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 symptoms occur obtain

medical attention.

Skin Contact Wash with plenty of soap and water. If skin irritation occurs,

get medical advice/attention.

Eye Contact Remove any contact lenses. Rinse cautiously with water for

several minutes. If eye irritation persists, get medical

advice/attention.

Ingestion Rinse mouth. Do not induce vomiting. Seek medical

treatment.

Most important symptoms and effects, both acute

and delayed

None

Indication of the 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

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.

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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.

Reference to other sections See Section: 8 and 13

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 metals. Keep away from oxidising agents.

Specific end use(s) Catalyst in the production of foam insulation panels. In

compliance with the conditions described in the annex to

this safety data sheet.

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

**Occupational Exposure Limits** 

		LTEL (8 hr TWA ppm)		STEL (ppm)		
SUBSTANCE.	CAS No.	PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:
Sulphuric acid	7664-93-9	1 mg/m³				
Toluene	108-88-3	200	20	300 ceiling		500 10min. peak
Xylene	1330-20-7	100	100		150	

Recommended monitoring method

**Exposure controls** 

NIOSH 5043, NIOSH 7903, and NIOSH 1501

Local exhaust required. In compliance with the conditions described in

the annex to this safety data sheet.

Personal protection equipment

Appropriate engineering controls

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

protection to eyes. Full face shield.

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 Not normally required.



Thermal hazards Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls In compliance with the conditions described in the annex to this safety

data sheet.

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

Information on basic physical and chemical properties

Appearance Liquid
Colour Amber / Brown

Odour Perceptible odour. Toluene-like.

Odour Threshold (ppm) Not available.

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pH (Value)

Algoritation (°C) / Freezing Point (°C)

Boiling point/boiling range (°C):

Flash Point (°C)

Evaporation rate

Flammability (solid, gas)

Explosive limit ranges

Algoritation (°C)

Solid, Gas)

Not available.

Not available.

Explosive limit ranges Vapour Pressure (Pascal) ≈3000 Vapour Density (Air=1) >1 Density (g/ml) ≈1.3 Solubility (Water) 1155 g/L Solubility (Other) Not available. Partition Coefficient (n-Octanol/water) <0.1 (log P) Auto Ignition Temperature (°C) >465 Decomposition Temperature (°C) Not available.

Explosive 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 reactions

Conditions to avoid

None anticipated.

Incompatible materials.

Incompatible materials Oxidizers

Hazardous Decomposition Product(s)

Carbon monoxide, Carbon dioxide, Sulphur oxides, Acrid

smoke.

≈166

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

#### Information on toxicological effects

Kinematic Viscosity (cSt) @ 40°C

#### Toluene-4-sulphonic acid (CAS No. 104-15-4)

**Acute toxicity** 

-Ingestion LD50 (rat): 1104mg/kg

-Inhalation Not available.

-Dermal LD50 (rabbit): >2000 mg/kg (New Zealand White)

-Irritation Corrosive (Skin and Eyes)

Repeated dose toxicity (sub-acute to chronic) NOAEL (rat) : > 500 mg/kg (Wistar)

**Mutagenicity** Negative

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

Xylenesulphonic acid (CAS No. 25321-41-9)

-See Section: Toluene-4-sulphonic acid (CAS No. 104-15-4)

## Sulphuric acid (CAS No. 7664-93-9)

**Acute toxicity** 

 -Ingestion
 LD50 (rat): 2140 mg/kg

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

-Dermal No data.

-Irritation Non-irritant. (rabbit)

-Sensitisation Skin sensitisation has been reported in humans.

Repeated dose toxicity (sub-acute to chronic)

No data.

Mutagenicity

No data.

Carcinogenicity Some evidence ofweak carcinogenetic activity. (rat)

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IARC Classification: Group 1.

ACGIH: Group 2A Suspected Human Carcinogen NTP: Listed (Strong inorganic acid mists containing

sulphuric acid)

Acute toxicity

Developmental impairment

NOAEL: 20 mg/m³ (rabbit) (New Zealand White)

NOEL: 20 mg/m³ (rabbit) (New Zealand White)

Other information None known.

#### **SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity** 

Toluene-4-sulphonic acid (CAS No. 104-15-4) EC50: 70 mg/l (72 hour) (Desmodesmus subspicatus)

NOEC: 44.8 mg/l (72 hour) (Desmodesmus subspicatus) LC50: >500 mg/l (96 hour) (Leuciscusidus melanotus)

EC50: >103 mg/l (48 hour) (Daphnia magna)

Xylenesulphonic acid (CAS No. 25321-41-9)

See Also Section: Toluene-4-sulphonic acid

Sulphuric acid (CAS No. 7664-93-9) EC50: 42.5 mg/l (48 hour) (*Pandalus montagui*) LC50: 42.0 mg/l (96 hour) (*Gambusia affinis*)

EC50: 29.0 mg/l 24 hour(s) (Daphnia magna)

Persistence and degradability -

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

Xylenesulphonic acid (CAS No. 25321-41-9)

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

Readily biodegradable.

Readily biodegradable.

Not readily biodegradable.

Bioaccumulative potential -

Toluene-4-sulphonic acid (CAS No. 104-15-4) Xylenesulphonic acid (CAS No. 25321-41-9) Sulphuric acid (CAS No. 7664-93-9)

Mobility in soil

Results of PBT and vPvB assessment

Other adverse effects

The substance has low potential for bioaccumulation. The substance has low potential for bioaccumulation. The substance has no potential for bioaccumulation.

The product has high mobility in soil. Not classified as PBT or vPvB.

None known.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods Disposal

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal

contractor or the local authority for advice.

with not more than 5% free sulphuric acid

Additional Information None known.

#### **SECTION 14: TRANSPORT INFORMATION**

**DOT (DEPARTMENT OF TRANSPORTATION)** 

UN number 2586

Proper Shipping Name ARYLSULFONIC ACIDS, LIQUID

Transport hazard class(es) 8
Packing Group III
Hazard label(s) 8
Environmental hazards No.

Special precautions for user None known.

Land transport (ADR/RID)

UN number 2586

Proper Shipping Name ARYLSULPHONIC ACIDS, LIQUID

with not more than 5% free sulphuric acid

Transport hazard class(es) 8
Packing Group III
Marine Pollutant No.

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Special precautions for user		None known.			
Sea transport (IMDG)					
UN number		2586			
Proper Shipping Name		ARYLSULPHONIC ACIDS, LIQUID			
		with 5% or less f	ree sulphuric acid		
Transport hazard class(es)		8			
Packing Group		III			
Environmental hazards		No.			
Special precautions for user		None known.			
Air transport (ICAO/IATA)					
UN number		2586			
Proper Shipping Name		ARYLSULPHON	NIC ACIDS, LIQUID		
11 5 PT 3			ree sulphuric acid		
Transport hazard class(es)		8			
Packing Group					
Environmental hazards		No.			
Special precautions for user		None known.			
Special precautions for user		None Momil			
Transport in bulk according to Ar	nex II of	Not established			
MARPOL73/78 and the IBC Code					
SECTION 15: REGULATOR	V INFORMATION				
OLOTION 13. REGOLATOR	I IIII ONIIATION				
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):					
			RQ		
Chemical Name	CAS No.	Typical %wt.	(Pounds)		
None					
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SARA	311/312	- Hazard	Categories:
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☐ Fire	☐ Sudden Release	☐ Reactivity		☐ Chronic (delayed)
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#### SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None		

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

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

## **SECTION 16: OTHER INFORMATION**

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

Date of preparation: January 30, 2013

Additional Information: None.

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