



# Naxcat<sup>®</sup> MOD ACID

## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

Chemical Name	Toluenesulfonic acid and Xylenesulfonic acid
Trade name	Naxcat <sup>®</sup> MOD ACID
CAS 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	None

**Details of the supplier of the safety data sheet**

Company Identification	Catexel Nease 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@catexel.com

**Emergency telephone number**

Emergency Phone No.	(513) 738-1255 CHEMTREC 24 hr. (800) 424-9300
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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
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**Label elements**

Hazard Symbol



**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	61%	88-20-0 104-15-4	May be corrosive to metals.. Causes severe skin burns and eye damage.
Xylenesulfonic acid	31%	25321-41-9	May be corrosive to metals.. Causes severe skin burns and 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 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 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**

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 in the production of foam insulation panels.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Occupational exposure limits**

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)		STEL (ppm)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Sulfuric acid	7664-93-9	1 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup> <sup>(1)</sup>	----	----	<sup>(1)</sup> Thoracic fraction
Toluene	108-88-3	200	20	300 ceiling	----	500 10min. peak
Xylene	1330-20-7	100	100	----	150	

**Recommended monitoring method**

NIOSH 5043, NIOSH 7903, and NIOSH 1501

**Exposure controls**

**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.

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.

Thermal hazards

Use gloves with insulation for thermal protection, when needed.

**Environmental Exposure Controls**

Do 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

Odour	Perceptible odour. Toluene-like.
Odour Threshold (ppm)	Not available.
pH (Value)	<1
Melting Point (°C) / Freezing Point (°C)	0 - 15
Boiling point/boiling range (°C):	182 - 223
Flash Point (°C)	>93 (>200 °F) [Open cup]
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Explosive limit ranges	Not available.
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.
Kinematic Viscosity (cSt) @ 40°C	≈166
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
<b>Other information</b>	Not available.

## SECTION 10: STABILITY AND REACTIVITY

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

<b>Acute toxicity</b> (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)
<b>Irritation/Corrosivity</b>	Corrosive (Skin and Eyes)
<b>Sensitization</b>	It is not a skin sensitizer.
<b>Repeated dose toxicity</b>	NOAEL: > 500 mg/kg bw/day (28 days/week, oral, rat)
<b>Carcinogenicity</b>	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 reproduction** 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.

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

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

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)  
Skin sensitisation has been reported in humans.

## Sensitization

## Repeated dose toxicity

No data.

## Carcinogenicity

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 reproduction

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 (*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.

xylenesulfonic acid (CAS# 25321-41-9)

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

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 montagu*)

### 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 (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: 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	----	----	----

SARA 311/312 - Hazard Categories:

☐ Fire ☐ Sudden Release ☐ Reactivity ☒ Immediate (acute) ☐ Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
Toluene	108-88-3	< 1%
Xylene	1330-20-7	< 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:



HMIS (Hazardous Material Information System)



NFPA (National Fire Protection Association)

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