NAXCAT® MOD ACID-35

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® MOD ACID-35
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	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	+1-513-587-2828
E-Mail (competent person)	techservice@catexel.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

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

Label elements

Hazard Symbol

Danger

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 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	None known.

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.

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

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)		STEL (ppm)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
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 NIOSH 5043, NIOSH 7903, and NIOSH 1501

Exposure controls

Appropriate engineering controls Local exhaust required. In compliance with the conditions described in the annex to this safety data sheet.

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

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.

pH (Value)	<1
Melting Point (°C) / Freezing Point (°C)	0 - 15
Boiling point/boiling range (°C):	182 - 223
Flash Point (°C)	>200 [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.
Other information	Not available.

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	Oxidizers
Hazardous Decomposition Product(s)	Carbon monoxide, Carbon dioxide, Sulphur oxides, Acrid smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

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)

	IARC Classification: Group 1. ACGIH: Group 2A Suspected Human Carcinogen NTP: Listed (Strong inorganic acid mists containing sulphuric acid)
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

	Acute 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)	Readily biodegradable.
Xylenesulphonic acid (CAS No. 25321-41-9)	Readily biodegradable.
Sulphuric acid (CAS No. 7664-93-9)	Not readily biodegradable.
Bioaccumulative potential -	
Toluene-4-sulphonic acid (CAS No. 104-15-4)	The substance has low potential for bioaccumulation.
Xylenesulphonic acid (CAS No. 25321-41-9)	The substance has low potential for bioaccumulation.
Sulphuric acid (CAS No. 7664-93-9)	The substance has no potential for bioaccumulation.
Mobility in soil	The product 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

DOT (DEPARTMENT OF TRANSPORTATION)

UN number	2586
Proper Shipping Name	**ARYLSULFONIC ACIDS, LIQUID** with not more than 5% free sulphuric acid
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.

Special precautions for user	None known.

Sea transport (IMDG)

UN number	2586
Proper Shipping Name	**ARYLSULPHONIC ACIDS, LIQUID** with 5% or less free 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	**ARYLSULPHONIC ACIDS, LIQUID** with 5% or less free sulphuric acid
Transport hazard class(es)	8
Packing Group	III
Environmental hazards	No.
Special precautions for user	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.
None	----	----

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

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
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Additional Information: None.

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