

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical NameToluenesulfonic acidTrade nameNAXCAT® 326LCAS No.88-20-0 & 104-15-4

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

Identified use(s) Catalyst
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

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 | 63 - 70 | 88-20-0 | May be corrosive to metals. |
| ο,ρ - Tolueriesulionic acid | 03 - 70 | 104-15-4 | Causes severe skin burns and eye damage. |
| Sulfuric acid | <2% | 7664-93-9 | Causes severe skin burns and eye damage. |
| Water | 27 - 30 | 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.

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

Combustion or thermal decomposition will evolve toxic vapours.

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.

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⁻ Toluene (CAS No. 108-88-3) <1%



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. Cautiously neutralize remainder. Then wash away with plenty of 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) Polymers and coatings catalyst

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits

| SUBSTANCE. | CAS No. | LTEL (8 hr TWA ppm) STEL (| | ppm) | Note: | |
|---------------|-----------|----------------------------|-------------|-------------|-------------|----------------------|
| SUBSTANCE. | CAS NO. | PEL (OSHA) | TLV (ACGIH) | PEL (OSHA) | TLV (ACGIH) | Note. |
| Sulfuric acid | 7664-93-9 | 1 mg/m³ | | | | (T)Thoracic fraction |
| Toluene | 108-88-3 | 200 | 20 | 300 ceiling | | 500 10min. peak |

Recommended monitoring method NIOSH 5043; NIOSH 7903; NIOSH 1500

Exposure controls

Appropriate engineering controls Provide adequate ventilation to ensure that the occupational exposure

limit is not exceeded.

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.

(i)

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

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

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<1

>1

1.2

Soluble Not available.

Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Liquid

Colour Amber to Brown.

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) Not available.

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 explosive.

Oxidising properties

Not oxidising.

SECTION 10: STABILITY AND REACTIVITY

Other information

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. May cause exothermic polymerization of furan resins. Generates heat of solution when dissolved in water and

alcohols.

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 ≥ 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.

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Toxicity for reproductionNo effects to the reproductive system.

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.

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.

SECTION 14: TRANSPORT INFORMATION

Land transport (U.S. DOT)

Sea transport (IMDG)

Air transport (ICAO/IATA)

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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% with not more than 5% free

free sulfuric acid free sulphuric acid sulphuric acid Transport hazard class(es) 8 8

Ш Ш Packing group Ш Hazard label(s) Corrosive Corrosive Corrosive **Environmental hazards** No No No None known. Special precautions for user 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 the 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:

☐ Sudden Release ☐ Fire ☐ 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

Date of preparation: December 14, 2023

Additional Information:



HMIS (Hazardous Material Information System)



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NFPA (National Fire Protection Association)

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