

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

| | |
|---------------|---------------------|
| Chemical Name | Phenolsulfonic acid |
| Trade name | Naxcat® P65D |
| CAS No. | 1333-39-7 |

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

| | |
|----------------------|--|
| Identified use(s) | Catalyst, Hydrotrope, Oilfield Additives |
| 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



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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Other hazards

Not classified as PBT or vPvB.

Additional Information

Contains residual phenol which is suspected of causing genetic defects to mammalian cells in vitro. However, given the corrosive / irritating nature of this product and the relatively low concentration of phenol

present, this product is not considered to pose a mutagenic risk to humans.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous ingredient(s) | %W/W | CAS No. | Hazard statement(s) |
|-------------------------|--------|-----------|---|
| Phenolsulfonic acid | 60-70% | 1333-39-7 | May be corrosive to metals. Causes severe skin burns and eye damage. |
| Sulfuric acid | <3% | 7664-93-9 | Causes severe skin burns and eye damage. |
| Water | 25-40% | 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.

- Phenol (CAS No. 108-95-2) <2%

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. |
| Eye Contact | Immediately flush eyes for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. |
| Ingestion | Call a physician (or poison control centre immediately). Do not give anything by mouth to an unconscious person. |

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 None anticipated.

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, Hydrotrope, Oilfield Additives

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits

| SUBSTANCE. | CAS No. | LTEL | | STEL | | Note: |
|---------------|-----------|----------------------|---------------------------|------------|-------------|----------------------|
| | | PEL (OSHA) | TLV (ACGIH) | PEL (OSHA) | TLV (ACGIH) | |
| Sulfuric acid | 7664-93-9 | 1 mg/m ³ | 0.2 mg/m ³ (T) | ---- | ---- | (T)Thoracic fraction |
| Phenol | 108-95-2 | 5.0 ppm [^] | 5.0 [^] | ---- | ---- | [^] Skin |

LTEL: Long Term Exposure Limit; STEL: Short Term Exposure Limit

Recommended monitoring method

NIOSH 5043; NIOSH 2546

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 | Reddish/ Brown |
| Odour | Slight Phenolic Odour |
| Odour Threshold (ppm) | Not available. |
| pH (Value) | <1.0 |
| Melting Point (°C) / Freezing Point (°C) | Not available |
| Boiling point/boiling range (°C): | 270 (518°F) |
| Flash Point (°C) | >92 °C (>198°F) |
| Evaporation rate | <1 |
| Flammability (solid, gas) | Not applicable. |
| Explosive limit ranges | Not available. |
| Vapour Pressure (Pascal) | 0.357 @ 68°F (phenol) |
| Vapour Density (Air=1) | >1 |
| Density (g/ml) | 1.35 @ 77°F |
| Solubility (Water) | 100% at 77°F |
| Solubility (Other) | Not available. |
| Partition Coefficient (n-Octanol/water) | Not available. |
| Auto Ignition Temperature (°C) | Not available. |
| Decomposition Temperature (°C) | Not available. |
| Kinematic Viscosity (cSt) @ 40°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 | 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

Phenolsulfonic acid (CAS No. 1333-39-7) (By analogy with similar materials)

| | |
|--------------------------------|--|
| Acute toxicity | Oral: LD50 ≥ 1104 mg/kg-bw Dermal: LD50 >2 g/kg-bw Inhalation: LC50 > 100 mg= saturated (Vapor), 8 hour, rat |
| Irritation/Corrosivity | corrosive |
| Sensitization | It is not a skin sensitizer. |
| Repeated dose toxicity) | NOAEL: > 500 mg/kg bw/day (28 days/week, oral, rat) |
| Carcinogenicity | It is unlikely to present a carcinogenic hazard to man. This is based on information currently available. |

| NTP | IARC | ACGIH | OSHA | NIOSH |
|-----|------|-------|------|-------|
| No. | No. | No. | No. | No. |



Naxcat® P65D

Mutagenicity

There is no evidence of mutagenic potential. Residual phenol in this formulation is not expected to present a mutagenic risk given the corrosive / irritating nature of this product.

Toxicity for reproduction

No effects to the reproductive system.

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

Acute toxicity

Oral: LD50= 2140 mg/kg-bw (rat)
Dermal: Not available.
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

Not available.

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

SECTION 12: ECOLOGICAL INFORMATION

Phenolsulfonic acid (CAS No. 1333-39-7) (By analogy with similar materials)

Short term

LC50 (96 hour): >500 mg/L (*Leuciscus idus melanotus*)
EC50 (48 hour): >103 mg/l (*Daphnia magna*, mobility)
EC50 (96 hour): 70 mg/l (*Pseudokirchnerella subcapitata*)

Long Term

Not available

Persistence and degradability

According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

Bioaccumulative potential

The substance has no potential for bioaccumulation.

Mobility in soil

Not available.

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 |



Naxcat® P65D

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. |
|---------------|----------|--------------|
| Phenol | 108-95-2 | < 2% |

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

| Chemical Name | CAS No. | Typical %wt. |
|---------------|-----------|--------------|
| Sulfuric acid | 7664-93-9 | < 3% |

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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