

## 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	Nease Co. 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@neaseco.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 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 <sup>3</sup>	0.2 mg/m <sup>3</sup> (T)	----	----	(T)Thoracic fraction
Phenol	108-95-2	5.0 ppm <sup>^</sup>	5.0 <sup>^</sup>	----	----	<sup>^</sup> 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

<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, 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)

<b>Acute toxicity</b>	Oral: LD50 ≥ 1104 mg/kg-bw Dermal: LD50 >2 g/kg-bw Inhalation: LC50 > 100 mg= saturated (Vapor), 8 hour, rat
<b>Irritation/Corrosivity</b>	corrosive
<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>	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.

**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)

<b>Acute toxicity</b>	Oral: LD50= 2140 mg/kg-bw (rat) Dermal: Not available. Inhalation: LC50 = 0.37-0.42 mg/l (rat)
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Irritation/Corrosivity  
Sensitization  
Repeated dose toxicity

Corrosive (Skin and Eyes)  
Skin sensitisation has been reported in humans.  
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/m<sup>3</sup> (rabbit) (New Zealand White)  
NOEL: 20 mg/m<sup>3</sup> (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
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: All components listed or polymer exempt.  
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: 1-16.

**Date of preparation:** May 16, 2014

**Additional Information:**



**HMIS (Hazardous Material Information System)**



**NFPA (National Fire Protection Association)**

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