SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Chemical Name: Benzene sulfonic acid, C10-16 alkyl derives. mixture
Trade name: Naxcat® 1270
CAS No.: Mixture

Relevant identified uses of the substance or mixture and uses advised against
Identified use(s): Catalyst for inks and coatings
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

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture
OSHA HCS (29 CFR 1910.1200): Flam. Liq. 2; Skin Corr. 1C; Eye Dam. 1; Met. Corr. 1; STOT SE 3

Label elements
Hazard Symbol

Signal word(s)
DANGER

Hazard statement(s)
Highly flammable liquid and vapour.
Causes severe skin burns and eye damage.
May be corrosive to metals.
May cause drowsiness or dizziness.

Precautionary statement(s)
Keep away from fire, sparks and heated surfaces - no smoking.
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.
## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous ingredient(s)</th>
<th>%W/W</th>
<th>CAS No.</th>
<th>Hazard statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzenesulfonic acid, C10-16-alkyl derivs*</td>
<td>65-75%</td>
<td>68584-22-5*</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>Isopropyl alcohol [USP]</td>
<td>25-30%</td>
<td>67-63-0</td>
<td>Causes serious eye irritation. May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td>Sulfuric acid</td>
<td>&lt;1%</td>
<td>7664-93-9</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
</tbody>
</table>

*Predominately includes Dodecyl benzene sulfonic acid (CAS# 27176-87-0)

**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.
  - Benzene, C10-16 alkyl derives (68648-87-3) <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. 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**
- Causes severe skin burns and eye damage. Vapours may cause drowsiness and dizziness.

**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.

**Environmental precautions**
- Do not allow to enter drains, sewers or watercourses.
Methods and material for containment and cleaning up

Eliminate sources of ignition. 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)
Catalyst for inks and coatings

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>CAS No.</th>
<th>LTE (8 hr TWA ppm)</th>
<th>STEL (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>PEL (OSHA)</td>
<td>TLV (ACGIH)</td>
</tr>
<tr>
<td>Sulfuric acid</td>
<td>7664-93-9</td>
<td>1 mg/m³</td>
<td>----</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>400 ppm</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

Recommended monitoring method
NIOSH 5043; NIOSH 1400 (alcohols I)

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.

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
Thick Liquid
**Naxcat® 1270**

Colour: Brown
Odour: Mild Acidic.
Odour Threshold (ppm): Not available.
pH (Value): <2
Melting Point (°C) / Freezing Point (°C): Not available.
Boiling point/boiling range (°C): >260 (>500 °F)
Flash Point (°C): >11 (>53 °F) (isopropyl Alcohol)
Evaporation rate: <1 (butyl acetate=1)
Flammability (solid, gas): Not applicable.
Explosive limit ranges: UEL=12.1% LEL=2.5% (isopropyl Alcohol)
Vapour Pressure (Pascal): 33 mm HG @ 20 (isopropyl Alcohol)
Vapour Density (Air=1): >1
Density (g/ml): 1.06
Solubility (Water): Dispersible in water.
Solubility (Other): Not available.
Partition Coefficient (n-Octanol/water): <0.1 (log P)
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: Benzensulfonic acid, C10-16-alkyl derivs (CAS No. 68584-22-5)

Acute toxicity (By analogy with similar materials): Oral: LD50 > 5 g/kg-bw
Dermal: LD50 >5 g/kg-bw
Inhalation: LC50 >1.9 mg/l (4 hr exposure)

Irritation/Corrosivity: Corrosive (Skin and Eyes)
Sensitization: It is not a skin sensitizer.
Repeated dose toxicity (By analogy with similar materials): NOAEL: c = 500 mg/kg bw/day (29 days, oral, rat)
NOAEL = 49.5 mg/m3 (6 hours per day, 5 days/week for a total of 28 days, rat).

Carcinogenicity: It is unlikely to present a carcinogenic hazard to man.

<table>
<thead>
<tr>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NIOSH</th>
</tr>
</thead>
</table>

Mutagenicity (By analogy with similar materials): There is no evidence of mutagenic potential.
Toxicity for reproduction (By analogy with similar materials)
No effects to the reproductive system.

Isopropanol (CAS# 67-63-0):

Acute toxicity
Oral: LD50 > 5.84 g/kg (rat)
Inhalation: > 10000 ppm (rat)
Dermal: LD50 = 16.4 mL/kg (rabbit) 24 hour(s)
May cause drowsiness or dizziness.

Irritation/Corrosivity
Irritating to eyes.

Sensitisation
It is not a skin sensitiser.

Repeated dose toxicity
NOAEL = 5,000 ppm (Inhalation)
May cause drowsiness or dizziness.

Carcinogenicity
It is unlikely to present a carcinogenic hazard to man.

<table>
<thead>
<tr>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NIOSH</th>
</tr>
</thead>
</table>

Mutagenicity
There is no evidence of mutagenic potential.

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

Acute toxicity
Oral: LD50 = 2140 mg/kg-bw (rat)
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)

<table>
<thead>
<tr>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed</td>
<td>Group 1</td>
<td>Group 2A</td>
<td>No.</td>
<td>No.</td>
</tr>
</tbody>
</table>

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

Benzenesulfonic acid, C10-16-alkyl derivs (CAS No. 68584-22-5) - (By analogy with similar materials)

Short term
LL50 (96 hour): >10000 mg/L (Cyprinodon variegatus)
EC50 (48 hour): >1000 mg/l (Daphnia magna, mobility)
EC50 (96 hour): >1000 mg/l (Pseudokirchnerella subcapitata)

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.

Isopropanol (CAS# 67-63-0):

Short term
LC50 (96 hour): 10,000 mg/l (Fathead minnow (Pimephales promelas))
LC50 24hour(s): >10,000 mg/l (Daphnia magna)

Long Term
NOEC: 3.37 µmol/l (Daphnia magna) (Growth rate)

Persistence and degradability
Readily biodegradable.

Bioaccumulative potential
Not available.

Mobility in soil
Not available.

Results of PBT and vPvB assessment
Not classified as PBT or vPvB.

Other adverse effects
None known.
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

<table>
<thead>
<tr>
<th>UN number</th>
<th>Land transport (U.S. DOT)</th>
<th>Sea transport (IMDG)</th>
<th>Air transport (ICAO/IATA)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UN 2924</td>
<td>UN 2924</td>
<td>UN 2924</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Flammable liquid, corrosive, n.o.s. (Isopropyl alcohol, Benzene sulfonic acid C10-C16 alkyl derivs.)</td>
<td>Flammable liquid, corrosive, n.o.s. (Isopropyl alcohol, Benzene sulphonic acid C10-C16 alkyl derivs.)</td>
<td>Flammable liquid, corrosive, n.o.s. (Isopropyl alcohol, Benzene sulphonic acid C10-C16 alkyl derivs.)</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>3 (8)</td>
<td>3 (8)</td>
<td>3 (8)</td>
</tr>
<tr>
<td>Packing group</td>
<td>II</td>
<td>II</td>
<td>II</td>
</tr>
<tr>
<td>Hazard label(s)</td>
<td>Flammable liquids, Corrosive</td>
<td>Flammable liquids, Corrosive</td>
<td>Flammable liquids, Corrosive</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
</tbody>
</table>

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

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):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
<th>RQ (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
</tbody>
</table>

SARA 311/312 - Hazard Categories:

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

SARA 313 - Toxic Chemicals (40 CFR 372):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>----</td>
<td>----</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>7664-93-9</td>
<td>&lt; 2%</td>
</tr>
</tbody>
</table>
SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: May 16, 2014

Additional Information:

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