SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

- Chemical Name: Mixture
- Trade name: NAXSOFT® NA-8
- CAS No.: Mixture

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

- Identified use(s): Surfactant
- 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. 4; Eye Dam. 1; Skin Irrit. 2

Label elements

- Hazard Symbol: DANGER

Signal word(s)

- Hazard statement(s): Combustible liquid
- Causes serious eye damage.
- Causes skin irritation.

Precautionary statement(s)

- Keep away from flames and hot surfaces. No smoking.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash hands thoroughly after handling.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

Other hazards

- Toxic to aquatic life. Harmful to aquatic life with long lasting effects. Not classified as PBT or vPvB.

Additional Information

- None
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>Sodium Octane sulfonate</td>
<td>35-40%</td>
<td>5324-84-5</td>
<td>Harmful if swallowed. Harmful if inhaled. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>2-5%</td>
<td>67-63-0</td>
<td>Causes serious eye irritation. May cause drowsiness or dizziness. Highly flammable liquid and vapour.</td>
</tr>
<tr>
<td>Sodium sulfate</td>
<td>1-5%</td>
<td>7757-82-6</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Water</td>
<td>55-60%</td>
<td>7732-18-5</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Additional Information - None

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 breathing has stopped, apply artificial respiration.

Skin Contact
Wash affected skin with plenty of water. Continue to wash the affected area for at least 15 minutes. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

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
Drink two glasses of water. Call a physician. If swallowed, and the victim is conscious and alert, induce vomiting immediately, as directed by medical personnel.

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 or foam.

-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. Keep containers cool by spraying with water if exposed to fire.
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. Prevent entry into drains.

Reference to other sections
None

Additional Information
None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Keep container tightly closed and in a well-ventilated place. Do not allow material to freeze.

Conditions for safe storage, including any incompatibilities
- Storage Temperature
  This product should be stored at a temperature greater than: 20 °C (68 °F).
- Incompatible materials
  Oxidizers

Specific end use(s)
Surfactant

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>SUBSTANCE.</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA ppm)</th>
<th>STEL (ppm)</th>
<th>Note:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>PEL (OSHA)</td>
<td>TLV (ACGIH)</td>
<td>PEL (OSHA)</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>400 ppm</td>
<td>200 ppm</td>
<td>----</td>
</tr>
</tbody>
</table>

Recommended monitoring method
NIOSH 1400 (alcohols I)

Exposure controls
Not normally required.

Personal protection equipment

Eye/face protection
Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)
The following to be used as necessary: Gloves (Neoprene or Natural rubber).

Respiratory protection
No personal respiratory protective equipment normally required.

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

Environmental Exposure Controls
Avoid release to the environment.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- **Appearance**: Liquid.
- **Colour**: White/Yellowish
- **Odour**: Mild
- **Odour Threshold (ppm)**: Not available.
- **pH (Value)**: 4 - 6
- **Melting Point (°C) / Freezing Point (°C)**: -2.7 (27°F)
- **Boiling point/boiling range (°C)**: Not available.
- **Flash Point (°C)**: 77 (171°F)
- **Evaporation rate (butyl acetate=1)**: <1
- **Flammability (solid, gas)**: Not applicable.
- **Explosive limit ranges**: Not available.
- **Vapour Pressure (Pascal)**: Not available.
- **Vapour Density (Air=1)**: Not available.
- **Density (g/ml)**: 1.104 @ 25 °C
- **Solubility (Water)**: Soluble
- **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. Keep away from fire.
- **Incompatible materials**: Reacts with oxidizers.
- **Hazardous Decomposition Product(s)**: Carbon monoxide, Carbon dioxide, Sulphur oxides

SECTION 11: TOXICOLOGICAL INFORMATION

- **Exposure routes**: Skin Contact, Eye Contact
- **Substances in preparations / mixtures**:
  - Sodium Octane sulfonate (CAS No. 5324-84-5) - By analogy with similar materials:
    - **Acute toxicity**
      - Oral: LD50 = 1200 mg/kg bw
      - Dermal: LD50 > 2000 mg/kg
    - **Irritation/Corrosivity**: Causes serious eye damage. Causes skin irritation.
    - **Sensitization**: It is not a skin sensitiser.
    - **Repeated dose toxicity**
      - NOAEL: 488 mg/kg/day (13 weeks, feed, Systemic effects)
      - LOAEL: 1016 mg/kg/day (13 weeks, feed, Systemic effects)
    - **Carcinogenicity**: It is unlikely to present a carcinogenic hazard to man.
    - **Mutagenicity**: There is no evidence of mutagenic potential.
    - **Toxicity for reproduction**: Not to be expected. NOAEL: >300 mg/kg/day (parental)
      - NOEL: >300 mg/kg/day (developmental)
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.

**Toxicity for reproduction**
- There is no evidence of toxicity to the reproduction system.

### SECTION 12: ECOLOGICAL INFORMATION

**Toxicity - Substances in preparations / mixtures**

Sodium Octane sulfonate (CAS No. 5324-84-5) - By analogy with similar materials:

- **Short term**
  - LC50 (96 hour): 29 mg/L (*Pimephales promelas*)
  - LC50 (48 hour): 5.55 mg/l (*Ceriodaphnia dubia*, mortality)
  - EC50 (72 hour): >120 mg/l (*Desmodesmus subspicatus*)

- **Long Term**
  - NOEC (42 days): >1.357 mg/L (*Pimephales promelas*, Weight)
  - NOEC (7 days): 0.88 mg/L (*Ceriodaphnia dubia*, reproduction)

**Persistence and degradability**
- Biodegradable.

**Bioaccumulative potential**
- Not available.

**Mobility in soil**
- The substance has low mobility in soil.

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

**Other adverse effects**
- None

### 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>Land transport</th>
<th>Sea transport</th>
<th>Air transport</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>(U.S. DOT)</strong></td>
<td><strong>(IMDG)</strong></td>
<td><strong>(ICAO/IATA)</strong></td>
</tr>
<tr>
<td>UN number</td>
<td>NA 1993</td>
<td>Not classified as dangerous for transport.</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Combustible liquid, n.o.s. (Contains: Petroleum Distillate)</td>
<td></td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>Comb. Liq.</td>
<td></td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
<td></td>
</tr>
<tr>
<td>Hazard label(s)</td>
<td>Combustible Liquid</td>
<td></td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None assigned</td>
<td></td>
</tr>
</tbody>
</table>

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

*Not regulated for ground shipments in the U.S. in non-bulk packaging (<119 gallons).*
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 (NDSL/DSL) – Listed DSL

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>None</td>
<td>*****</td>
<td>*****</td>
</tr>
</tbody>
</table>

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 2

Date of preparation: March 16, 2015

Additional Information:

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