SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- Chemical Name: Mixture
- Trade name: NAXSOFT® 40S
- 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): Eye Dam. 1; Skin Irrit. 2

Label elements

- Hazard Symbol: DANGER

Signal word(s)

- DANGER

Hazard statement(s)

- Causes serious eye damage.
- Causes skin irritation.

Precautionary statement(s)

- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash hands and exposed skin after use.
- 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.
- 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.

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>Composition/information on ingredients</th>
<th>%W/W</th>
<th>CAS No.</th>
<th>Hazard statement(s)</th>
</tr>
</thead>
</table>
| Benzenesulfonic acid, C10-16-alkyl derivs., sodium salt | 36-38 % | 68081-81-2   | Harmful if swallowed.  
Causes skin irritation.  
Causes serious eye damage.  
Toxic to aquatic life.  
Harmful to aquatic life with long lasting effects. |
| Aromatic sulfonic acid, salt          | < 4    | Trade Secret | Causes eye irritation.                                                              |
| Water                                 | 50 - 60 % | 7732-18-5   | Not applicable                                                                     |

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 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 attention immediately.

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.

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
Cover spills with inert absorbent material. Sweep spilled substances into containers. Transfer to a container for disposal.
SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Do not get in eyes. Wash hands and exposed skin after use.

Conditions for safe storage, including any incompatibilities
- Storage Temperature
  Keep container tightly closed and dry. This product should be stored at a temperature greater than: 0°C (32°F). Do not allow material to freeze.
- Incompatible materials
  Keep away from oxidising agents. Reacts with water. Keep container tightly closed and dry.

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>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
</tbody>
</table>

Recommended monitoring method
None

Exposure controls

Appropriate engineering 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.
Avoid generation of mist. An approved dust mask should be worn if dust/mist is generated during handling.

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

Environmental Exposure Controls
None.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Viscous liquid.</td>
</tr>
<tr>
<td>Colour</td>
<td>Yellow.</td>
</tr>
<tr>
<td>Odour</td>
<td>Mild</td>
</tr>
<tr>
<td>Odour Threshold (ppm)</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
pH (Value) | 7 - 9.5
---|---
Melting Point (°C) / Freezing Point (°C) | Not available.
Boiling point/boiling range (°C): | Not available.
Flash Point (°C) | >121 (250 °F)
Evaporation rate (butyl acetate=1) | <1
Flammability (solid, gas) | Not applicable.
Explosive limit ranges | Not available.
Vapour Pressure (Pascal) | Approximately that of Water
Vapour Density (Air=1) | Not available.
Density (g/ml) | Not available.
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 available
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 oxidizers.
Hazardous Decomposition Product(s) Carbon monoxide, Carbon dioxide, Sulphur oxides

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Substances in preparations / mixtures

Benzensulfonic acid, C10-16-alkyl derivs., sodium salt (CAS No.68081-81-2) - By analogy with similar materials:

| Acute toxicity | Oral: LD50 = 1080 mg/kg-bw  
Dermal: LD50 >2000 mg/kg |
| Irritation/Corrosivity | Causes serious eye damage. Causes skin irritation. |
| Sensitization | None. |
| Repeated dose toxicity | NOAEL = 125 mg/kg bw/day (28 days, Oral gavage)  
LOAEL = 250 mg/kg bw/day (28 days, Oral gavage) |

| Carcinogenicity | No evidence of carcinogenicity. |

<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 | None |

Aromatic sulfonic acid, salt (CAS No. Trade secret):

| Acute toxicity | Oral: LD50 > 16200 mg/kg-bw  
Dermal: LD50 > 2000 mg/kg-bw  
Inhalation: LC50 > 6.41 mg/l 232 min, rat (By analogy with similar materials) |
| Irritation/Corrosivity | Causes eye irritation. |
| Sensitization | It is not a skin sensitizer. (By analogy with similar materials) |
Repeated dose toxicity

NOAEL: > 763 active ingredient/kg bw/day (in diet for 90 days, rat)
(By analogy with similar materials)

Carcinogenicity

It is unlikely to present a carcinogenic hazard to man. (By analogy with similar materials)

<table>
<thead>
<tr>
<th>NTP No.</th>
<th>IARC No.</th>
<th>ACGIH No.</th>
<th>OSHA No.</th>
<th>NIOSH No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Mutagenicity

There is no evidence of mutagenic potential. (By analogy with similar materials)

Toxicity for reproduction

None anticipated (By analogy with similar materials)

SECTION 12: ECOLOGICAL INFORMATION

Toxicity - Substances in preparations / mixture

Benzenesulfonic acid, C10-16-alkyl derivs., sodium salt (CAS No.68081-81-2) - By analogy with similar materials:

Short term

LC50 (96 hour) = 1.67 mg/l (Lepomis macrochirus)
EC50 (96 hour) = 3.5 mg/l (Hyalella azteca)

Long Term

NOEC (90 day) = 0.25 mg/l (Tilapia mossambica)
LOEC (90 day) = 0.51 mg/l (Tilapia mossambica)
LOEC (28 day) = 4 mg/l (P. parthenogenica)

Persistence and degradability

Readily biodegradable.

Bioaccumulative potential

The substance has a low potential for bioaccumulation.

Mobility in soil

The substance has moderate mobility in soil.

Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

Other adverse effects

None known.

Aromatic sulfonic acid, salt (CAS No. Trade secret):

Short term

LC50 (96 hour): > 1000 mg/L (Oncorhynchus mykiss) (By analogy with similar materials)
EC50 (48 hour): >40.3 mg/l (Daphnia magna, mobility)
EC50 (96 hour): > 230 mg/l (Pseudokirchnerella subcapitata) (By analogy with similar materials)

Long Term

Scientifically unjustified

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.

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 (U.S. DOT)*</th>
<th>Sea transport (IMDG)</th>
<th>Air transport (ICAO/IATA)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Not classified as dangerous for transport.</td>
</tr>
</tbody>
</table>

UN number

Proper Shipping Name

Transport hazard class(es)

Packing group

Revision: 14 November 2014
Hazard label(s)
Environmental hazards
Special precautions for user

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable
*Contains a substance with an Reportable Quantity. Containers over 5,883 pounds will be regulated for transport as Class 9 Environmentally Hazardous Substance.

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>Sodium dodecylbenzenesulfonate</td>
<td>25155-30-0</td>
<td>&lt; 17</td>
<td>1,000</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: 1-16.

Date of preparation: November 14, 2014

Additional Information:

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