SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier
- Chemical Name: Mixture
- Trade name: NAXAN® DIL
- 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

Label elements
- Hazard Symbol

Signal word(s)
- WARNING

Hazard statement(s)
- Causes eye irritation.

Precautionary statement(s)
- 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. If eye irritation persists: Get medical advice/attention.

Other hazards
- Harmful to aquatic life with long lasting effects.

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>
<tbody>
<tr>
<td>Sodium diisopropynaphthalenesulfonate</td>
<td>35-45%</td>
<td>1322-93-6</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>Diisopropylnaphthalene</td>
<td>&lt;2%</td>
<td>38640-62-9</td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Toxic to aquatic life.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Very toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>Water</td>
<td>55-65%</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.

Eye Contact
Immediately flush eyes for at least 15 minutes. Hold eye open and rinse slowly and gently with water. Continue rinsing. If irritation develops and persists, get medical 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.

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
  Prevent from freezing. Ideal storage temperature is greater than: 4.4°C (40°F) and 49°C (120°F).
- Incompatible materials
  Keep away from oxidising agents. 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>
<th>Note:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>-----</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
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              Light Yellow / Amber
Odour               Hydrocarbon
Odour Threshold (ppm) Not available.
P pH (Value)         7.5 – 10.0 (5% aqueous)
Melting Point (°C) / Freezing Point (°C): Not available.
Boiling point/boiling range (°C): 100 (212 °F)
Flash Point (°C): >93 (200 °F)
Evaporation rate (butyl acetate=1): <1
Flammability (solid, gas): Not applicable.
Explosive limit ranges: Not available.
Vapour Pressure (Pascal): 133.3 (1 mmHg)
Vapour Density (Air=1): Not available.
Density (g/ml): 1.08-1.10
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 applicable.
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
Sodium diisopropylnaphthalenesulfonate (CAS No.1322-93-6) - By analogy with similar materials:

Acute toxicity
Oral: LD50 = 1350 mg/kg-bw
Dermal: LD50 = 4200 mg/kg-bw
Irritation/Corrosivity: Causes eye irritation.
Sensitization: No information available
Repeated dose toxicity: No information available
Carcinogenicity: No information available

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

Mutagenicity: No information available
Toxicity for reproduction: No information available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity - Substances in preparations / mixture
Sodium diisopropylnaphthalenesulfonate (CAS No.1322-93-6)
Short term: No information available
Long Term: No information available
Diisopropynaphthalene (CAS No. 38640-62-9)

Short term LC50 (48 hour) - 1.7 mg/L (Daphnia magna)
Long term LOEC (21 days) - 0.025 mg/L (Daphnia magna)

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>Proper Shipping Name</th>
<th>Transport hazard class(es)</th>
<th>Packing group</th>
<th>Hazard label(s)</th>
<th>Environmental hazards</th>
<th>Special precautions for user</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

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: 1-16.

Date of preparation: September 1, 2014
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