SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Chemical Name: Mixture
Trade name: NAXAN®PLUS ABP
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 Irrit. 2b

Label elements
Hazard Symbol
WARNING

Signal word(s)
Hazard statement(s): Causes eye irritation. May form combustible dust concentrations in air.

Precautionary statement(s)
Wash hands thoroughly after handling.
Keep work areas free of dust accumulation. Enclosed material handling equipment (conveyors, ventilation, precipitators, etc.) must be designed and maintained so as not to be a source of ignition.
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.
For professional users only.

Other hazards
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>
<tbody>
<tr>
<td>Alkylated naphthalene sulfonate, sodium</td>
<td>&gt;91%</td>
<td>Trade Secret</td>
<td>Causes eye irritation. May form combustible dust concentrations in air</td>
</tr>
<tr>
<td>salt</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proprietary surfactant</td>
<td>&lt;4%</td>
<td>Trade Secret</td>
<td>Harmful if swallowed. Causes skin irritation. Causes serious eye damage.</td>
</tr>
<tr>
<td>Sodium sulfate</td>
<td>&lt;3%</td>
<td>7757-82-6</td>
<td>None</td>
</tr>
<tr>
<td>Water</td>
<td>&lt;2%</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: None anticipated.
Methods and material for containment and cleaning up  
Sweep spilled substances into containers. Collect spillage and transfer to a container for disposal.

Reference to other sections  
None

Additional Information  
None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling  
Empty container may contain product residues. Ground/bond container and receiving equipment. Follow precautions for safe handling after container is empty.

Conditions for safe storage, including any incompatibilities

- Storage Temperature  
None assigned

- 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 mg/m³) PEL (OSHA)</th>
<th>STEL (mg/m³) TLV (ACGIH)</th>
<th>PEL (OSHA)</th>
<th>TLV (ACGIH)</th>
<th>Note:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>--------</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
</tbody>
</table>

Recommended monitoring method

Exposure controls  
None

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  
Powder/Solid.

Colour  
Tan
Odour: Slight aromatic
Odour Threshold (ppm): Not available.
PH (Value): 7.5 - 10
Melting Point (°C) / Freezing Point (°C): Not available.
Boiling point/boiling range (°C): Not available.
Flash Point (°C): Not available.
Evaporation rate (butyl Acetate=1): <1
flammability: May form combustible dust concentrations in air
Explosive limit ranges: Not available.
Vapour Pressure (Pascal): Not available
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
Alkylated naphthalene sulfonate, sodium salt (Trade secret) - By analogy with similar materials:
Acute toxicity: Oral: LD50 > 2000 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 / mixtures
Alkylated naphthalene sulfonate, sodium salt (Trade secret)
Short term: No information available
Long Term: No information available
Persistence and degradability: The product is biodegradable.
Bioaccumulative potential: The product has low potential for bioaccumulation.
Mobility in soil  
The product is predicted to have low 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>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></td>
</tr>
</tbody>
</table>

UN number  
Proper Shipping Name  
Transport hazard class(es)  
Packing group  
Hazard label(s)  
Environmental hazards  
Special precautions for user  
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 (DSL/NDSL)  
- Listed DSL: Proprietary surfactant  
- Listed NDSL: Alkylated naphthalene sulfonate, sodium salt

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: August 21, 2014

Revision: 21 August 2014
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