SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Chemical Name: Mixture
Trade name: NAXONAC® T50A
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

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 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.
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
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>Polyoxyethylene tridecyl ether phosphate, ammonium salt</td>
<td>&lt;25 %</td>
<td>69029-43-2</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>Monoammonium phosphate</td>
<td>&lt;0.25%</td>
<td>7722-76-1</td>
<td>Not classified</td>
</tr>
<tr>
<td>Diammonium phosphate</td>
<td>&lt;0.25%</td>
<td>7783-28-0</td>
<td>Not classified</td>
</tr>
<tr>
<td>Water</td>
<td>70-80%</td>
<td>7732-18-5</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

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.

- Ethylene Oxide (CAS No. 75-21-8) - May accumulate in the head space of drums.

### 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. 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. Water spray should be used to cool containers. Do not apply water directly on material.
- **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. Avoid inhalation of vapours.

### 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
含管路材料与清洗方法

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
无其他参考

Additional Information
无额外信息

SECTION 7: HANDLING AND STORAGE
手柄和存储

Precautions for safe handling
防止安全处理

Keep container tightly closed and in a well-ventilated place. Empty containers may contain residues. This product may contain trace levels of Ethylene oxide (CAS No. 75-21-8), which may accumulate in the head space of containers. Establish monitoring systems for exposure assessment to comply with OSHA standard 29 CFR 1910.1047.

Conditions for safe storage, including any incompatibilities
安全储存条件及任何不相容物质

- Storage Temperature
  This product should be stored at a temperature greater than: 20 °C (68 °F) and less than: 40 °C (104°F)

- Incompatible materials
  Oxidizers and reducing agents.

Specific end use(s)
特定用途

Surfactant

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
接触控制/个人防护

Control parameters
控制参数

Occupational exposure limits
职业暴露限值

<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></td>
<td></td>
<td>PEL (OSHA)</td>
<td>TLV (ACGIH)</td>
</tr>
<tr>
<td>Ethylene Oxide*</td>
<td>75-21-8</td>
<td>1 ppm</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Note:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* May accumulate in the headspace of drums. OSHA Action Level = 0.5 ppm as an 8-hour time-weighted average. Refer to OSHA 29 CFR 1910.1047.

Recommended monitoring method
推荐监测方法

Exposure controls
暴露控制

Appropriate engineering controls
适宜工程控制

Local exhaust required.

Personal protection equipment
个人防护装备

Eye/face protection
眼/面部防护

The following to be used as necessary: Goggles giving complete protection to eyes. Full face shield.

Skin protection (Hand protection/ Other)
皮肤保护（手保护/其他）

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
呼吸保护

No personal respiratory protective equipment normally required.

Thermal hazards
热危害

Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls
环境暴露控制

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**: Clear.
- **Odour**: Ammonia-like
- **Odour Threshold (ppm)**: Not available.
- **pH (Value)**: 6.7-6.9
- **Melting Point (°C) / Freezing Point (°C)**: Not available.
- **Boiling point/boiling range (°C)**: Not available.
- **Flash Point (°C)**: >93 (200 °F)
- **Evaporation rate**: Not available.
- **Flammability (solid, gas)**: Not applicable.
- **Explosive limit ranges**: Not available.
- **Vapour Pressure (Pascal)**: < 137.32 (0.1 mmHG)
- **Vapour Density (Air=1)**: Not available.
- **Density (g/ml)**: 1.03 @ 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
- **Incompatible materials**: Reacts with -oxidizers, reducing agents, and strong bases
- **Hazardous Decomposition Product(s)**: Carbon monoxide, Carbon dioxide, phosphorous compounds

SECTION 11: TOXICOLOGICAL INFORMATION

- **Exposure routes**: Inhalation, Skin Contact, Eye Contact
- **Substances in preparations / mixtures**: Polyoxymethylene tridecyl ether phosphate, ammonium salt (CAS No. 69029-43-2) (By analogy with similar materials)

**Acute toxicity**: Oral: LD50 > 2000 mg/kg (rat)

**Irritation/Corrosivity**: Causes serious eye damage. Causes skin 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

This product may contain trace levels of Ethylene oxide (CAS No. 75-21-8), which may accumulate in the head space of containers. Establish monitoring systems for exposure assessment to comply with OSHA standard 29 CFR 1910.1047. Ethylene oxide is a known human carcinogen by NTP and a suspected human carcinogen by ACGIH®.
SECTION 12: ECOLOGICAL INFORMATION

No ecotoxic effects are known for this product.

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 (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
- [x] 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:

- **HMIS (Hazardous Material Information System):** 2 1 0
- **NFPA (National Fire Protection Association):** 2 1 0

Revision: 14 November 2014
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