SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier
- Chemical Name: Mixture
- Trade name: NAXCHEM® N-FOAM 802
- 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)
- DANGER

Hazard statement(s)
- Causes severe skin burns and eye damage.
- May be corrosive to metals.
- May cause damage to organs through prolonged or repeated exposure:
  - Kidneys; Oral

Precautionary statement(s)
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- 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.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Other hazards
- Harmful to aquatic life. 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>2-Butoxyethanol dihydrogen phosphate</td>
<td>20 - 30%</td>
<td>14260-98-1</td>
<td>Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life.</td>
</tr>
<tr>
<td>Benzenesulfonic acid, C10-16-alkyl derivs</td>
<td>15 - 25%</td>
<td>68584-22-5</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>5 - 10%</td>
<td>111-76-2</td>
<td>Combustible liquid. Harmful if swallowed. Harmful if inhaled. Harmful in contact with skin. Causes skin irritation. Causes serious eye damage.</td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td></td>
<td>107-21-1</td>
<td>May cause damage to organs through prolonged or repeated exposure: Kidneys; Oral</td>
</tr>
<tr>
<td>Water</td>
<td>45 - 55%</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 symptoms occur obtain medical attention.

Skin Contact: Wash affected skin with plenty of water. Remove contaminated clothing immediately. 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. If eye irritation persists: Get medical advice/attention.

Ingestion: If ingested, rinse mouth. Do not induce vomiting. Seek medical treatment.

Most important symptoms and effects, both acute and delayed: Causes severe skin burns and eye damage.

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.

- Unsuitable Extinguishing Media: None anticipated.

Special hazards arising from the substance or mixture: Combustion or thermal decomposition will evolve toxic vapours.

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
Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a container for disposal or recovery. Cautiously neutralize remainder. Then wash away with plenty of water. If possible prevent water running into sewers.

Reference to other sections
None
Additional Information
None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Do not get in eyes, on skin, or on clothing. Wear protective gloves / protective clothing / eye protection / face protection. Do not breathe dust / fume / gas / mist / vapors / spray.

Conditions for safe storage, including any incompatibilities
- Storage Temperature
  Store at room temperature.
- Incompatible materials
  Attacks many materials and clothing. 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>(8hr TWA)</th>
<th>(STEL)</th>
<th>Note:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>50 ppm</td>
<td>20 ppm</td>
<td><strong>skin designation</strong></td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>107-21-1</td>
<td>-----</td>
<td>-----</td>
<td>100 mg/m3</td>
</tr>
</tbody>
</table>

Recommended monitoring method
NIOSH 1403 (Alcohols IV); NIOSH 5500 (Ethylene Glycol)

Exposure controls

Appropriate engineering controls
Use only with sufficient ventilation.

Personal protection equipment

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

Skin protection (Hand protection/ Other)
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
No personal respiratory protective equipment normally required.
**NAXCHEM® N-Foam 802**

**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**: Yellow / Amber
- **Odour**: Mild
- **Odour Threshold (ppm)**: Not available.
- **pH (Value)**: <1
- **Melting Point (°C) / Freezing Point (°C)**: Not available.
- **Boiling point/boiling range (°C)**: 100 (>212°F)
- **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)**: Not available.
- **Vapour Density (Air=1)**: >1
- **Density (g/ml)**: 1.2
- **Solubility (Water)**: Soluble
- **Solubility (Other)**: Not available.
- **Partition Coefficient (n-Octanol/water)**: <0.1 (log P)
- **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**: Avoid contact with heat and ignition sources.

**Incompatible materials**: Reacts with - Alkalis Bleaching products and comparable oxidisers. Heat is generated when mixed with water.

**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**: 2-Butoxyethanol dihydrogen phosphate (CAS No.14260-98-1) - By analogy with similar materials:

**Acute toxicity**
- Oral: LD50 > 3000 mg/kg (rat)
- Inhalation: LC0 = 22.53 mg/l (rat)
- Dermal: LD50 = 5000 mg/kg (rabbit)

**Irritation/Corrosivity**: Irritating to eyes and skin.

**Sensitisation**: It is not a skin sensitisser.

**Repeated dose toxicity**
- NOAEL = 200 mg/kg-bw/day (male rat)
- NOEL = 100 mg/kg-bw/day (female rat)

**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>
<tbody>
<tr>
<td>Mutagenicity</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td>Toxicity for reproduction</td>
<td>There is no evidence of mutagenic potential.</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
</tbody>
</table>

**Benzensulfonic acid, C10-16-alkyl derivs (CAS No. 68584-22-5)**

**Acute toxicity** (By analogy with similar materials)
- Oral: LD50 > 5 g/kg-bw
- Dermal: LD50 >5 g/kg-bw
- Inhalation: LC50 >1.9 mg/l (4 hr exposure)

**Irritation/Corrosivity**
- Corrosive (Skin and Eyes)

**Sensitization**
- It is not a skin sensitizer.

**Repeated dose toxicity** (By analogy with similar materials)
- NOAEL: = 500 mg/kg bw/day (29 days, oral, rat)
- NOAEL = 49.5 mg/m3 (6 hours per day, 5 days/week for a total of 28 days, rat).

**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>
<tbody>
<tr>
<td>Mutagenicity (By analogy with similar materials)</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td>Toxicity for reproduction (By analogy with similar materials)</td>
<td>There is no evidence of mutagenic potential.</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
</tbody>
</table>

**2-Butoxyethanol (CAS No. 111-76-2)**

**NOTE:** Rodents shown to be more susceptible to the effects of hemolysis than are humans and guinea pigs, thus acute toxicity for guinea pigs considered more relevant for classification:

**Acute toxicity**
- Oral: LD50 = 1400 mg/kg (guinea pig)
- Inhalation: LC0 (1-hr) > 3.1 mg/l (Vapour, guinea pig)
- Dermal: LD50 >2000 mg/kg (guinea pig)

**Irritation/Corrosivity**
- Irritating to eyes and skin.

**Sensitisation**
- It is not a skin sensitizer.

**Repeated dose toxicity**
- Inadequate data available to make full assessment. Rodents shown to be more susceptible to the effects of hemolysis than are humans.

**Carcinogenicity**
- NOAEL (Two year cancer study) < 125 ppm - Probably not carcinogenic to humans.

<table>
<thead>
<tr>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NIOSH</th>
</tr>
</thead>
</table>
| Ethylene Glycol (CAS No. 107-21-1)**

**Acute toxicity**
- Oral: LD50 = 7712 mg/kg-bw (rat)
- Dermal: LD50 > 3500 mg/kg–bw(rat)
- Inhalation: LC50 > 2.5 mg/l (rat)

**Irritation/Corrosivity**
- Not Irritating to eyes and skin.

**Sensitization**
- Not a Sensitizer

**Repeated dose toxicity**
- Oral: NOAEL = 150 mg/kg bw/day (rat) Kidney toxicity.
- Dermal: NOAEL = 2200-4400 mg/kg bw/day (dog) Kidney toxicity.
**Carcinogenicity**

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

**Mutagenicity**

There is no evidence of mutagenic potential.

**Toxicity for reproduction**

NOEL: 20 mg/m³ Parental and F1 generation (mouse)

---

**SECTION 12: ECOLOGICAL INFORMATION**

2-Butoxyethanol dihydrogen phosphate (CAS No. 14260-98-1) By analogy with similar materials:

**Short term**

LC50 (96 hour): = 63.4 mg/l (*Brachydanio rerio*)

IC50 (48 hour): = 38.9 mg/l (*Daphnia magna*, mobility)

EC50 (72 hour): = 14.4 mg/l (*Pseudokirchnerella subcapitata*)

**Long term**

No data

**Persistence and degradability**

Readily biodegradable.

**Bioaccumulative potential**

The product has low potential for bioaccumulation.

**Mobility in soil**

The substance has low mobility in soil.

**Results of PBT and vPvB assessment**

Not classified as PBT or vPvB.

---

**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>Land transport (U.S. DOT)</th>
<th>Sea transport (IMDG)</th>
<th>Air transport (ICAO/IATA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2586</td>
<td>Alkyl sulfonic acids, liquid with not more than 5 percent free sulfuric acid (Benzene sulfonic acid, C10-16 alkyl derivs.)</td>
<td>Alkyl sulphonic acids, liquid with not more than 5 percent free sulphuric acid (Benzene sulphonic acid, C10-16 alkyl derivs.)</td>
<td>Alkyl sulphonic acids, liquid with not more than 5 percent free sulphuric acid (Benzene sulphonic acid, C10-16 alkyl derivs.)</td>
</tr>
<tr>
<td>2586</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
<td>III</td>
<td>III</td>
</tr>
<tr>
<td>Hazard label(s)</td>
<td>Corrosive</td>
<td>Corrosive</td>
<td>Corrosive</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None assigned</td>
<td>None assigned</td>
<td>None assigned</td>
</tr>
</tbody>
</table>

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

---

**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)**

-NDSL: 2-Butoxyethanol dihydrogen phosphate

-DSL: Benzenesulfonic acid, C10-16-alkyl derivs; Proprietary glycol ethers

**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>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>5-10 %</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: October 2, 2014

Additional Information:

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