MATERIAL SAFETY DATA SHEET

Nease Corporation
10740 Paddys Run Road
Harrison, OH 45030
(513) 738-1255

Product Inquiries: (888) 762-7373

Emergency: CHEMTREC 800-424-9300

SECTION 1 - PRODUCT INFORMATION

PRODUCT NAME: NAXCHEM® N-FOAM 802
CHEMICAL NAME: Mixture
CAS NUMBER: Mixture
PRODUCT CODE: 3611
MSDS NO.: 1-17103

ISSUE DATE: 07/13/05
SUPERSEDES: 05/23/05

SECTION 2 - HAZARD IDENTIFICATION

Appearance & Odor: Clear yellow to amber liquid. Mild odor.

Primary Routes of Exposure: Skin, Eyes and Respiratory tract.

Health Hazard Warnings: DANGER! Corrosive. Causes severe burns to eyes and skin. Eye contact may cause blindness. Harmful if swallowed or inhaled. Vapors are irritating. Exothermic reaction with water and strong alkalis.

Inhalation: Inhalation can cause coughing, choking, and variable symptoms of headache, dizziness, and weakness. In high exposure cases, pulmonary swelling, air hunger and tightness in chest may follow, 6 to 8 hour latent period.

Skin Contact: Can cause severe burns to skin. Material is extremely destructive to tissue.

Eye Contact: Can cause burns unless immediately and thoroughly flushed with water. May cause permanent eye damage. Symptoms include pain, tearing, and photophobia (sensitivity to light).

Ingestion: Material is harmful if swallowed. Irritation and burning pain in the mouth, throat and abdomen followed by vomiting and diarrhea. Choking will occur due to swelling of the throat.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS REGISTRY NO.</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol dihydrogen phosphate</td>
<td>14260-98-1</td>
<td>20 - 30</td>
</tr>
<tr>
<td>Benzene sulfonic acid, C10-16 alkyl derivs.</td>
<td>68584-22-5</td>
<td>15 – 25</td>
</tr>
<tr>
<td>Glycol ethers</td>
<td>Proprietary</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>45 - 55</td>
</tr>
</tbody>
</table>

SECTION 4 - FIRST AID MEASURES

Eyes: Immediately wash eyes with water for 15-20 minutes. Hold eyelids apart and roll eyes up and down to assure complete washing. Seek immediate medical attention.

Skin: Thoroughly flush the affected area with plenty of water for at least 15 minutes. Remove contaminated clothing and equipment. Apply sterile bandages to affected area and treat as a thermal burn. Seek medical attention.

Inhalation: Immediately move the patient to fresh air and call a physician. If breathing is difficult, give oxygen. If not breathing, begin artificial respiration.
SECTION 4 - FIRST AID MEASURES (CONT.)

**Ingestion:** If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

**Other Specific Instructions:** In the event of exposure, seek medical attention immediately. Do not give chemical antidotes unless directed to do so by the physician. Treat for shock.

SECTION 5 - FIRE FIGHTING MEASURES

**Flash Point:** > 250 °F  
**Auto Ignition:** No data available

**Explosive Limits; UEL/LEL:** No data available

**Extinguishing Agents:** Use water fog, dry chemical, carbon dioxide, or foam extinguishing agents.

**Fire & Explosion Hazards:** As in any fire prevent human exposure to fire, smoke, fumes or products of combustion. Firefighters should wear recommended exposure control equipment including a self-contained breathing apparatus. Cool containers with water that are exposed to flames. Avoid placing a solid stream of water on spilled material.

**Hazardous Combustion Products:** Thermal decomposition produces highly toxic hydrogen sulfide and oxides of carbon, phosphorous, and sulfur.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Protective Equipment:** Appropriate protective equipment must be worn when handling a spill of NAXCHEM® N-FOAM 802. See Section 8 - Exposure Control, for recommendations.

**Spill or Leak Information:** Use water spray to knock down vapors. Neutralize acid with crushed limestone, soda ash, or lime. Absorb spill material with an inert material (i.e. vermiculite, soil, etc.). Flush spill area with plenty of water to a chemical sewer. Collect water for proper disposal. Prevent discharge to bodies of water.

SECTION 7 - HANDLING AND STORAGE

**Handling Conditions:** Prevent all skin and eye contact. Emptied container may retain product residues. Follow all warnings and precautions even after container is emptied.

**Storage Conditions:** Store in cool and well ventilated area. Steel is corroded by sulfonic acids and is not recommended for prolonged storage at elevated temperatures since iron and color contamination could result. Dilution with water may increase the corrosivity of the acid.

SECTION 8 - EXPOSURE CONTROL

**Exposure Limits:** 25 ppm - Skin; TWA (Glycol ethers)

**Eye Protection:** Use chemical splash goggles. Wear face shield when transferring material.

**Skin Protection:** Skin contact with material should be minimized through the use of suitable impervious gloves. Butyl rubber or neoprene gloves are recommended. Use chemical resistant protective clothing or apron when handling this material.
SECTION 8 - EXPOSURE CONTROL (CONT.)

Respiratory Protection: Use a NIOSH approved organic vapor/acid gas air-purifying respirator. If exposure conditions warrant, wear a self-contained breathing apparatus in the positive pressure mode.

Ventilation: Good local exhaust ventilation should be provided.

Other Protective Equipment: Safety showers and eye wash stations where material is being handled. Wash hands and face before eating, using tobacco products or using the washroom. Smoke or eat only in designated areas. Take a warm shower and change clothing daily. Clothing and shoes used while handling this material should not be worn or taken away from the workplace.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear yellow to amber liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild odor</td>
</tr>
<tr>
<td>Melting Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>212 °F</td>
</tr>
<tr>
<td>Evaporation Rate (butyl acetate=1)</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>pH</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>&gt; 1</td>
</tr>
<tr>
<td>Specific Gravity/Density</td>
<td>1.2</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 250 °F</td>
</tr>
<tr>
<td>Auto Ignition</td>
<td>No data available</td>
</tr>
</tbody>
</table>

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and handling.

Incompatibility: Exothermic reaction with water and strong alkalis. Avoid contact with bleach or other hypochlorites. May cause exothermic polymerization of furan resins.

Polymerization: Not expected to occur.

Decomposition: When heated to decomposition, will emit toxic oxides of carbon, phosphorous and sulfur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Data: The information shown in Section 2 - Hazard Identification, is based on the toxicity profile of benzene sulfonic acid, C_{10-16} alkyl derivs.:

Ingestion: Oral (Mouse): LD_{50} = 1407 mg/kg

Sensitization: This material is not known to cause sensitization.

Carcinogenicity/Mutagenicity: This material is not known to be a human or animal carcinogen.

Teratogenicity/Reproductive Toxicity: This material is not known to cause teratogenicity or reproductive toxicity.
SECTION 12 - ECOLOGICAL INFORMATION

Ecological Toxicity: The ecological toxicity of this product is not known. The material should be considered toxic to fish.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal: This product as supplied is considered a hazardous waste as defined by RCRA. Characteristic; Corrosive, D002. Dispose of in accordance with local, state and federal regulations.

SECTION 14 - TRANSPORT CONSIDERATIONS

Shipping Description: Alkyl sulfonic acids, liquid with not more than 5 percent free sulfuric acid (Benzene sulfonic acid, C_{10-16} alkyl derivs.)

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>ID No.</th>
<th>PG</th>
<th>Labels</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>UN2586</td>
<td>III</td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

SECTION 15 - REGULATORY CONSIDERATIONS

OSHA Regulatory Status: This product is a hazardous chemical under 29 CFR 1910.1200.

SARA Title III

Section 311/312: This product is categorized as an immediate health hazard according to EPA under Section 311/312 of SARA.

Section 313: This product contains the following chemicals subject to 313 reporting:

Glycol ethers category

CERCLA: Dodecylbenzenesulfonic acid 27176-87-0, (< 6% Conc.)

Pennsylvania Right-to-Know: Dodecylbenzenesulfonic acid 27176-87-0; Environmental

California Proposition 65: Not applicable

Chemical Control Law Status:

The components of this product are in compliance with the inventory listing requirements of the Chemical Control Laws in the following countries: United States of America, China, Europe and Australia

WHMIS Ingredient Disclosure List: Dodecylbenzenesulfonic acid 27176-87-0

HMIS Health Rating: 3
HMIS Fire Rating: 1
HMIS Physical Hazards Rating: 1
HMIS Other: NA

SECTION 16 - OTHER CONSIDERATIONS

Prepared by Regulatory Staff        Phone No.: (814) 238-2424    MSDS No.: 1-17103
Emergency Phone No.: CHEMTREC  800-424-9300
Issue Date: 7/13/05

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