

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

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

| | |
|-----------------------------|--|
| OSHA HCS (29 CFR 1910.1200) | Skin Corr. 1C; Eye Dam. 1; Met. Corr. 1; STOT RE 2 |
|-----------------------------|--|

Label elements

Hazard Symbol



DANGER

Signal word(s)

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

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.

Precautionary statement(s)

Other hazards

Harmful to aquatic life. Not classified as PBT or vPvB.

Additional Information

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous ingredient(s) | %W/W | CAS No. | Hazard statement(s) |
|---|----------|------------|--|
| 2-Butoxyethanol dihydrogen phosphate | 20 - 30% | 14260-98-1 | Causes skin irritation. Causes serious eye irritation Harmful to aquatic life. |
| Benzenesulfonic acid, C10-16-alkyl derivs | 15 - 25% | 68584-22-5 | Causes severe skin burns and eye damage. |
| 2-Butoxyethanol | 5 - 10% | 111-76-2 | Combustible liquid Harmful if swallowed. Harmful if inhaled. Harmful in contact with skin. Causes skin irritation. Causes serious eye damage. |
| Ethylene Glycol | | 107-21-1 | May cause damage to organs through prolonged or repeated exposure: Kidneys; Oral |
| Water | 45 - 55% | 7732-18-5 | Not applicable. |

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

| SUBSTANCE. | CAS No. | (8hr TWA) | | (STEL) | | Note: |
|-----------------|----------|------------|-------------|------------|-------------|-------------------|
| | | PEL (OSHA) | TLV (ACGIH) | PEL (OSHA) | TLV (ACGIH) | |
| 2-Butoxyethanol | 111-76-2 | *50 ppm | 20 ppm | ----- | ----- | *skin designation |
| Ethylene Glycol | 107-21-1 | ----- | ----- | ----- | 100 mg/m3 | ----- |

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.

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 sensitiser. |
| 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. |

| NTP | IARC | ACGIH | OSHA | NIOSH |
|-----|------|-------|------|-------|
| No. | No. | No. | No. | No. |

Mutagenicity
Toxicity for reproduction

There is no evidence of mutagenic potential.
Not to be expected.

Benzenesulfonic 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
Sensitization

Corrosive (Skin and Eyes)
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.

| NTP | IARC | ACGIH | OSHA | NIOSH |
|-----|------|-------|------|-------|
| No. | No. | No. | No. | No. |

Mutagenicity (By analogy with similar materials)

There is no evidence of mutagenic potential.

Toxicity for reproduction (By analogy with similar materials)

Not to be expected.

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
Sensitisation

Irritating to eyes and skin.
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.

| NTP | IARC | ACGIH | OSHA | NIOSH |
|-----|------|-------|------|-------|
| No. | 3 | A3 | No. | No. |

Mutagenicity
Toxicity for reproduction

There is no evidence of mutagenic potential.
NOAEL (parental, F1 and F2 generation) = 720 mg/kg bw/day

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
Sensitization

Not Irritating to eyes and skin.
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

NOAEL (mouse): = 1500 mg/kg bw/day (103 weeks)

| NTP | IARC | ACGIH | OSHA | NIOSH |
|-----|------|-------|------|-------|
| No | No | NO | No. | No. |

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(<i>Brachydanio rerio</i>) IC50 (48 hour): = 38.9 mg/l(<i>Daphnia magna</i> , mobility) EC50 (72 hour): = 14.4 mg/l (<i>Pseudokirchnerella subcapitata</i>) |
| 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

| | Land transport (U.S. DOT) | Sea transport (IMDG) | Air transport (ICAO/IATA) |
|------------------------------|--|---|---|
| UN number | 2586 | 2586 | 2586 |
| Proper Shipping Name | Alkyl sulfonic acids, liquid with not more than 5 percent free sulfuric acid (Benzene sulfonic acid, C10-16 alkyl derivs.) | Alkyl sulphonic acids, liquid with not more than 5 percent free sulphuric acid (Benzene sulphonic acid, C10-16 alkyl derivs.) | Alkyl sulphonic acids, liquid with not more than 5 percent free sulphuric acid (Benzene sulphonic acid, C10-16 alkyl derivs.) |
| Transport hazard class(es) | 8 | 8 | 8 |
| Packing group | III | III | III |
| Hazard label(s) | Corrosive | Corrosive | Corrosive |
| Environmental hazards | No. | No. | No. |
| Special precautions for user | None assigned | None assigned | None assigned |

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: **On active TSCA list**
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):

| Chemical Name | CAS No. | Typical %wt. | RQ (Pounds) |
|---------------|---------|--------------|-------------|
| None | ---- | ---- | ---- |

SARA 311/312 - Hazard Categories:

Fire
 Sudden Release
 Reactivity
 Immediate (acute)
 Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

| Chemical Name | CAS No. | Typical %wt. |
|-----------------|----------|--------------|
| 2-Butoxyethanol | 111-76-2 | 5-10 % |

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

| Chemical Name | CAS No. | Typical %wt. |
|---------------|---------|--------------|
| None | ----- | ----- |

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 15

Date of preparation: July 23, 2019

Additional Information:

| | |
|------------------------------|---|
| HEALTH | 3 |
| FLAMMABILITY | 1 |
| PHYSICAL HAZARD | 1 |
| Personal Protection D | |

HMIS (Hazardous Material Information System)

NFPA (National Fire Protection Association)

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