

## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

Chemical Name	Mixture
Trade name	NAXAN® 221
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
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### SECTION 2: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

OSHA HCS (29 CFR 1910.1200)	Eye Irrit. 2b; May form combustible dust concentrations in air.
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**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.

For professional users only.

**Other hazards**

Toxic to aquatic life. Toxic to aquatic life with long lasting effects. Not classified as PBT or vPvB.

**Additional Information**

None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard statement(s)
Alkylated naphthalene sulfonate, sodium salt	>90%	Trade Secret	Causes eye irritation. May form combustible dust concentrations in air
Proprietary surfactant 1	<2.5%	Trade Secret	Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.
Proprietary surfactant 2	<4.5%	Trade Secret	Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Water	<5%	7732-18-5	Not applicable

**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 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. Water spray should be used to cool containers.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** Remove all ignition sources. Avoid breathing dust. Put on protective equipment before entering danger area.

<b>Environmental precautions</b>	None anticipated.
<b>Methods and material for containment and cleaning up</b>	Sweep spilled substances into containers. Flush the contaminated area with large amounts of water. Collect spillage and transfer to a container for disposal.
<b>Reference to other sections</b>	None
<b>Additional Information</b>	None

## SECTION 7: HANDLING AND STORAGE

<b>Precautions for safe handling</b>	Keep container tightly closed. Ground/bond container and receiving equipment. Do not get in eyes. 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.
<b>Conditions for safe storage, including any incompatibilities</b>	
-Storage Temperature	Store at room temperature.
-Incompatible materials	Keep away from oxidising agents. Keep container tightly closed and dry.
<b>Specific end use(s)</b>	Surfactant

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Occupational exposure limits

		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Ethylene Oxide*	75-21-8	1 ppm	1 ppm	5 ppm	-----	*

\* 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** NIOSH 1614

### Exposure controls

**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	Hydrocarbon
Odour Threshold (ppm)	Not available.
pH (Value)	7.5 - 10.5 (5% aqueous solution)
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 (solid, gas)	Not available.
Explosive limit ranges	May form combustible dust concentrations in air
Vapour Pressure (Pascal)	1.167 X 10 <sup>-7</sup> (8.76 X 10 <sup>-10</sup> mm HG) @ 25 °C
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.
<b>Other information</b>	Not available.

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable.
<b>Possibility of hazardous reactions</b>	None anticipated.
<b>Conditions to avoid</b>	Incompatible materials.
<b>Incompatible materials</b>	Reacts with oxidizers and acids.
<b>Hazardous Decomposition Product(s)</b>	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:

<b>Acute toxicity</b>	Oral: LD50 > 2000 mg/kg-bw
<b>Irritation/Corrosivity</b>	Causes eye irritation.
<b>Sensitization</b>	No information available
<b>Repeated dose toxicity</b>	No information available
<b>Carcinogenicity</b>	No information available

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

<b>Mutagenicity</b>	No information available
<b>Toxicity for reproduction</b>	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

Toxicity - Substances in preparations / mixture

### Alkylated naphthalene sulfonate, sodium salt (CAS No. Trade secret)

Short term No information available  
 Long Term No information available

### Proprietary Surfactant 1 (CAS No. Trade Secret)

Short term EC50 (48 hour) = 1.821 mg/L (*Daphnia magna*, QSAR)  
 EC50 (48 hour) = 20 mg/L (*Pseudokirchnerella subcapitata*)  
 Long Term No information available  
 Persistence and degradability This product is predicted to degrade in soil and water.  
 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.

### Proprietary Surfactant 2 (CAS No. Trade Secret)

Short term LC50 (96 hour) = 0.323 mg/L (*Pimephales promelas*)  
 LC50 (48 hour) = 0.716 mg/L (*Ceriodaphnia dubia*)  
 EC50 (72 hour) = 2.02 mg/L (*Pseudokirchnerella subcapitata*)  
 Long Term NOEC (21 days) = 0.1 mg/L (*Daphnia magna*)  
 EC10 (72 hour) = 1.22 mg/L (*Pseudokirchnerella subcapitata*)  
 Persistence and degradability This product is predicted to degrade in soil and water.  
 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

Incinerate under approved controlled conditions, 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>(U.S. DOT)</u>	Sea transport <u>(IMDG)</u>	Air transport <u>(ICAO/IATA)</u>
UN number	3077	3077	3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s. (nonylphenol ethoxylate)	Environmentally hazardous substance, solid, n.o.s. (nonylphenol ethoxylate)	Environmentally hazardous substance, solid, n.o.s. (nonylphenol ethoxylate)
Transport hazard class(es)	9	9	9
Packing group	III	III	III
Hazard label(s)	Marine Pollutant	Marine Pollutant	Marine Pollutant
Environmental hazards	Yes	Yes	Yes
Special precautions for user	None assigned	None assigned	None assigned

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 (NDSL/DSL)**

- Listed NDSL: Alkylated naphthalene sulfonate, sodium salt
- Listed DSL: Proprietary surfactants

**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.
None	-----	-----

**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: 1-16.

Date of preparation: August 29, 2014

**Additional Information:**



HMIS (Hazardous Material Information System)



NFPA (National Fire Protection Association)

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