

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
Trade name	NAXAN®PLUS 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
---------------------	--

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)	Eye Dam. 1; Skin Irrit. 2; May form combustible dust concentrations in air.
-----------------------------	---

Label elements

Hazard Symbol



DANGER

Signal word(s)

Hazard statement(s)

Causes serious eye damage.
Causes skin irritation.
May form combustible dust concentrations in air.

Precautionary statement(s)

Wear eye/face protection.
Wash hands and exposed skin after use.
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. Get immediate medical attention.
IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention.
For professional users only.

Other hazards

Toxic to aquatic life. Harmful to aquatic life with long lasting effects. 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)
Alkylated naphthalene sulfonate, sodium salt	> 90	Trade Secret	Causes eye irritation May form combustible dust concentrations in air
Proprietary surfactant	< 5%	Trade Secret	Causes serious eye damage. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Proprietary alcohol	<2%	Trade Secret	Very toxic to aquatic life. 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 irritation (redness, rash, blistering) develops, get medical attention.
Eye Contact	Immediately flush eyes for at least 15 minutes. Hold eye open and rinse slowly and gently with water. Continue rinsing. Get immediate 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.

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	Sweep spilled substances into containers. Flush the contaminated area with large amounts 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. 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	
-Storage Temperature	Prevent from freezing. This product should be stored at a temperature above: 31 °C (88°F).
-Incompatible materials	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.	LTEL (8 hr TWA ppm)		STEL (ppm)		Note:
		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
Colour	Slightly tan
Odour	Hydrocarbon odor
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):	100 (212° F)
Flash Point (°C)	> 93.3 (> 200° F)
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable
Explosive limit ranges	May form combustible dust concentrations in air.
Vapour Pressure (Pascal)	Not available
Vapour Density (Air=1)	Not available
Density (g/ml)	Not available
Solubility (Water)	Not available
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	Keep away from oxidizing agents and Acids.
Hazardous Decomposition Product(s)	Carbon monoxide, Carbon dioxide

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:

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

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

Mutagenicity	No information available
Toxicity for reproduction	No information available

Proprietary surfactant (Trade secret)

Acute toxicity

Oral: LD50 > 5000 mg/kg
 Dermal: LD50 > 2000 mg/kg

Irritation/Corrosivity

Causes serious eye damage.

Sensitization

It is not a skin sensitiser.

Repeated dose toxicity

NOAEL: 433 mg/kg bw/day (Oral, 21 days)

Carcinogenicity

No information available

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

Mutagenicity

There is no evidence of mutagenic potential.

Toxicity for reproduction

NOAEL: >250 mg/kg bw/day (parental, F1 and F2 generations)

Proprietary alcohol (Trade secret)

Acute toxicity

Oral: LD50 = 26533-37434 mg/kg
 Dermal: LD50 > 2000 mg/kg

Irritation/Corrosivity

None

Sensitization

It is not a skin sensitiser.

Repeated dose toxicity

NOAEL (Oral, 21 days) > 1 ml/kg bw/day (By analogy with similar materials)

Carcinogenicity

No information available

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

Mutagenicity

There is no evidence of mutagenic potential.

Toxicity for reproduction

NOAEL (Developmental Toxicity): >1000 mg/kg bw/day (By analogy with similar materials)

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 (CAS No. Trade Secret)

Short term EC50 (96 hour) = 0.48 mg/l (*Fathead minnow*)
 EC50 (48 hour) = 0.40 mg/l (*Daphnia magna*)
 EC50 (72 hour) = 0.85 mg/l (*Pseudokirchnerella subcapitata*)

Long Term NOEC (30 days) = 0.28 mg/l (*Pimephales promelas*)

Persistence and degradability Readily biodegradable.
 Bioaccumulative potential The product has low potential for bioaccumulation.
 Mobility in soil The product has low mobility in soil.
 Results of PBT and vPvB assessment Not classified as PBT or vPvB.
 Other adverse effects None known.

Proprietary Alcohol (CAS No. Trade Secret)

Short term LC50 (96 hour) = 0.48 mg/L (*Oncorhynchus mykiss*)
 EC50 (48 hour) = 0.765 mg/L (*Daphnia magna*)
 EC50 (72 hour) = 2.1 mg/L (*Pseudokirchnerella subcapitata*)
 EC0 (3 hour) > 1000 mg/L (Activated sludge)



NAXAN®PLUS 221

Long Term	NOEC (21 days) = 14 µg/L (<i>Daphnia magna</i>) (By analogy with similar materials)
Persistence and degradability	Readily biodegradable.
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	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			
Proper Shipping Name		Not classified as dangerous for transport.	
Transport hazard class(es)			
Packing group			
Hazard label(s)			
Environmental hazards			
Special precautions for user			

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	-----	<5%

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: April 15, 2015

NAXAN®PLUS 221

Additional Information:

HEALTH		2
FLAMMABILITY		1
PHYSICAL HAZARD		0
Personal Protection	B	

HMIS (Hazardous Material Information System)



NFPA (National Fire Protection Association)

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Nease Co. LLC gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Nease Co. LLC accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.