

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
Trade name	NAXAN® BFL
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 Dam. 1; Skin Irrit. 2
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Label elements

Hazard Symbol



DANGER

Signal word(s)

Hazard statement(s)

Causes serious eye damage.
Causes skin irritation.

Precautionary statement(s)

Wear protective gloves/protective clothing/eye protection/face protection.
Wash hands and exposed skin after use.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Other hazards

Harmful to aquatic life. 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	35 - 45%	Trade Secret	Causes eye irritation.
Benzenesulfonic acid, C10-16-alkyl derivs., sodium salt	10 - 15%	68081-81-2	Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Proprietary surfactant	<1	Trade Secret	Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.
Water	45 - 55%	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	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
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	Cover spills with inert absorbent material. Sweep spilled substances into containers. Transfer to a container for disposal.
Reference to other sections	None
Additional Information	None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Do not get in eyes. Wash hands and exposed skin after use. 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 greater than: 20°C (68°F). The product will precipitated at 10°C (50°F).
-Incompatible materials	Keep away from oxidising agents. Keep container tightly closed and dry.
Specific end use(s)	Used in formulation of institutional and industrial cleaners

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

None.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Amber to Brown
Odour	Hydrocarbon
Odour Threshold (ppm)	Not available.
pH (Value)	7.5 - 10.5
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)	Approximately that of Water
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.
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	Reacts with oxidizers.
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

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

Benzenesulfonic acid, C10-16-alkyl derivs., sodium salt (CAS No.68081-81-2) - By analogy with similar materials:

Acute toxicity Oral: LD50 = 1080 mg/kg-bw
 Dermal: LD50 >2000 mg/kg
Irritation/Corrosivity Causes serious eye damage. Causes skin irritation.
Sensitization None.
Repeated dose toxicity NOAEL = 125 mg/kg bw/day (28 days, Oral gavage)
 LOAEL = 250 mg/kg bw/day (28 days, Oral gavage)
Carcinogenicity No evidence of carcinogenicity.

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

Mutagenicity There is no evidence of mutagenic potential.
Toxicity for reproduction None

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

Benzenesulfonic acid, C10-16-alkyl derivs., sodium salt (CAS No.68081-81-2)- By analogy with similar materials:

Short term LC50 (96 hour) = 1.67 mg/l (*Lepomis macrochirus*)
 EC50 (96 hour) = 3.5 mg/l (*Hyalella azteca*)
 Long Term NOEC (90 day) = 0.25 mg/l (*Tilapia mossambica*)
 LOEC (90 day) = 0.51 mg/l (*Tilapia mossambica*)
 LOEC (28 day) = 4 mg/l (*P. parthenogenica*)

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

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.

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: Benzenesulfonic acid, C10-16-alkyl derivs., sodium salt
- Listed DSL: Proprietary surfactant

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Sodium dodecylbenzenesulfonate	25155-30-0	<3 %	1000

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

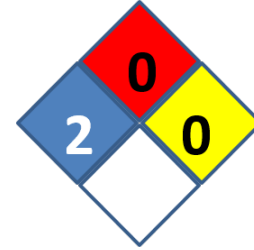
The following sections contain revisions or new statements: 1-16.

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Additional Information:

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
Personal Protection	B 

HMIS (Hazardous Material Information System)



NFPA (National Fire Protection Association)

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