

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Foamer 1026 NS

Revision Date: 24-Sep-2015

Revision Number: 3

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product Name Foamer 1026 NS
Internal ID Code HM008131

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Foam Stabilizer
Sector of use SU2 - Mining, (including offshore industries)
Product category PC20 - Products such as pH-regulators, flocculants, precipitants, neutralization agents, other unspecific
Process categories PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises

1.3. Details of the supplier of the safety data sheet

Halliburton Energy Services
Halliburton House, Howemoss Place
Kirkhill Industrial Estate
Dyce
Aberdeen, AB21 0GN
United Kingdom

www.halliburton.com

For further information, please contact

E-Mail address: fdunexchem@halliburton.com

1.4. Emergency telephone number

+44 8 08 189 0979 / 1-760-476-3961

Emergency telephone - §45 - (EC)1272/2008	
Europe	112
Croatia	Centar za kontrolu otrovanja (CKO): (+385 1) 23-48-342 (Poison Control Center (PCC) - Institute for Medical Research and Occupational Health)
Cyprus	+210 7793777
Denmark	Poison Control Hotline (DK): +45 82 12 12 12
France	ORFILA (FR): + 01 45 42 59 59
Germany	Poison Center Berlin (DE): +49 030 30686 790
Italy	Poison Center, Milan (IT): +39 02 6610 1029
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
Norway	Poisons Information (NO): + 47 22 591300
Poland	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97
Romania	+40 21 318 36 06
Spain	Poison Information Service (ES): +34 91 562 04 20
United Kingdom	NHS Direct (UK): +44 0845 46 47

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Skin Corrosion / irritation	Category 2 - H315
Serious Eye Damage / Eye Irritation	Category 1 - H318

Chronic Aquatic Toxicity

Chronic 3 - H412

2.2. Label Elements**Hazard Pictograms****Signal Word****Danger****Hazard Statements**

H315 - Causes skin irritation

H318 - Causes serious eye damage

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P362 - Take off contaminated clothing and wash before reuse

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

Contains**Substances**

Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt

Hexylene glycol

Cocobetaine

Alcohols, C6-10, ethoxylated

CAS Number

68037-05-8

107-41-5

61789-40-0

70879-83-3

2.3. Other Hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on Ingredients**3.2. Mixtures**

Mixture

Substances	EINECS	CAS Number	PERCENT (w/w)	EU - CLP Substance Classification	REACH No.
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	614-215-8	68037-05-8	10 - 30%	Skin Irrit. 2 (H315) Eye Corr. 1 (H318) Aquatic Chronic 3 (H412) Flam. Liq. 3 (H226)	No data available
Hexylene glycol	203-489-0	107-41-5	5 - 10%	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319)	No data available
Cocobetaine	263-058-8	61789-40-0	1 - 5%	Eye Corr. 1 (H318) Aquatic Chronic 2 (H411)	No data available
Alcohols, C6-10, ethoxylated	615-189-0	70879-83-3	0.1 - 1%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Corr. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)	No data available

For the full text of the H-phrases mentioned in this Section, see Section 16

SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation	If inhaled, move victim to fresh air and seek medical attention.
Eyes	Immediately flush eyes with large amounts of water for at least 30 minutes. Seek prompt medical attention.
Skin	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Get medical attention if irritation persists.
Ingestion	If swallowed, do NOT induce vomiting. Give victim two glasses of water, Call a physician immediately. Never give anything by mouth to an unconscious person.

4.2. Most Important symptoms and effects, both acute and delayed

Causes severe eye irritation which may damage tissue. Causes skin irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

SECTION 5: Firefighting Measures**5.1. Extinguishing media****Suitable Extinguishing Media**

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

5.2. Special hazards arising from the substance or mixture**Special Exposure Hazards**

Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Decomposition in fire may produce harmful gases. Vapors are heavier than air and may accumulate in low areas. Vapors may travel along the ground to be ignited at distant locations.

5.3. Advice for firefighters**Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas. Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Ensure adequate ventilation. See Section 8 for additional information

6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

6.3. Methods and material for containment and cleaning up

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove.

6.4. Reference to other sections

See Section 8 and 13 for additional information.

SECTION 7: Handling and Storage**7.1. Precautions for Safe Handling**

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Ensure adequate ventilation. Wash hands after use. Launder contaminated clothing before reuse. Ground and bond containers when transferring from one container to another. Use appropriate protective equipment.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Keep container closed when not in use. Store away from oxidizers. Store at temperatures below 140 F (60 C). Product has a

shelf life of 24 months.

7.3. Specific End Use(s)**Exposure Scenario**

No information available

Other Guidelines

No information available

SECTION 8: Exposure Controls/Personal Protection**8.1. Control parameters****Exposure Limits**

Substances	CAS Number	EU	UK	Netherlands	France
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Not applicable	Not applicable	Not applicable	Not applicable
Hexylene glycol	107-41-5	Not applicable	TWA: 25 ppm TWA: 123 mg/m ³ STEL: 25 ppm STEL: 123 mg/m ³	Not applicable	STEL: 25 ppm STEL: 125 mg/m ³
Cocobetaine	61789-40-0	Not applicable	Not applicable	Not applicable	Not applicable
Alcohols, C6-10, ethoxylated	70879-83-3	Not applicable	Not applicable	Not applicable	Not applicable

Substances	CAS Number	Germany	Spain	Portugal	Finland
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Not applicable	Not applicable	Not applicable	Not applicable
Hexylene glycol	107-41-5	TWA: 10 ppm TWA: 49 mg/m ³	25 ppm STEL [VLA-EC]; 123 mg/m ³ STEL [VLA-EC]	Not applicable	TWA: 25 ppm TWA: 120 mg/m ³ STEL: 40 ppm STEL: 200 mg/m ³
Cocobetaine	61789-40-0	Not applicable	Not applicable	Not applicable	Not applicable
Alcohols, C6-10, ethoxylated	70879-83-3	Not applicable	Not applicable	Not applicable	Not applicable

Substances	CAS Number	Austria	Ireland	Switzerland	Norway
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Not applicable	Not applicable	Not applicable	Not applicable
Hexylene glycol	107-41-5	TWA: 10 ppm TWA: 49 mg/m ³ STEL" 10 ppm STEL" 49 mg/m ³	25 ppm STEL; 125 mg/m ³ STEL	TWA: 10 ppm TWA: 49 mg/m ³ STEL: 20 ppm STEL: 98 mg/m ³	Not applicable
Cocobetaine	61789-40-0	Not applicable	Not applicable	Not applicable	Not applicable
Alcohols, C6-10, ethoxylated	70879-83-3	Not applicable	Not applicable	Not applicable	Not applicable

Substances	CAS Number	Italy	Poland	Hungary	Czech Republic
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Not applicable	Not applicable	Not applicable	Not applicable
Hexylene glycol	107-41-5	Not applicable	Not applicable	Not applicable	Not applicable
Cocobetaine	61789-40-0	Not applicable	Not applicable	Not applicable	Not applicable
Alcohols, C6-10, ethoxylated	70879-83-3	Not applicable	Not applicable	Not applicable	Not applicable

Substances	CAS Number	Denmark	Romania	Croatia	Cyprus
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Not applicable	Not applicable	Not applicable	Not applicable
Hexylene glycol	107-41-5	Not applicable	Not applicable	TWA: 25 ppm TWA: 123 mg/m ³ STEL: 25 ppm STEL: 123 mg/m ³	Not applicable
Cocobetaine	61789-40-0	Not applicable	Not applicable	Not applicable	Not applicable
Alcohols, C6-10, ethoxylated	70879-83-3	Not applicable	Not applicable	Not applicable	Not applicable

**Derived No Effect Level (DNEL)
Worker**

No information available.

General Population**Predicted No Effect Concentration (PNEC)**

No information available.

8.2. Exposure controls**Engineering Controls**

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

Personal protective equipment

If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

Respiratory Protection

If engineering controls and work practices cannot keep exposure below occupational exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified professional. Organic vapor respirator.

Hand Protection

Chemical-resistant protective gloves (EN 374) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Nitrile gloves. (>= 0.4 mm thickness)
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced. Manufacturer's directions for use should be observed because of great diversity of types.

Skin Protection

Rubber apron.

Eye Protection

Chemical goggles; also wear a face shield if splashing hazard exists.

Other Precautions

Eyewash fountains and safety showers must be easily accessible.

Environmental Exposure Controls Do not allow material to contaminate ground water system

SECTION 9: Physical and Chemical Properties**9.1. Information on basic physical and chemical properties**

Physical State: Liquid
Odor: Sweet

Color: Clear to Light yellow Amber
Odor Threshold: No information available

PropertyValuesRemarks/ - Method**pH:**

6-8 (5%)

Freezing Point/Range

No data available

Melting Point/Range

No data available

Boiling Point/Range

No data available

Flash Point

> 99 °C / > 210.2 °F Tag Closed Cup (TCC)

Flammability (solid, gas)

No data available

upper flammability limit

No data available

lower flammability limit

No data available

Evaporation rate

No data available

Vapor Pressure

No data available

Vapor Density

No data available

Specific Gravity

No data available

Water Solubility

Soluble in water

Solubility in other solvents

No data available

Partition coefficient: n-octanol/water

No data available

Autoignition Temperature

No data available

Decomposition Temperature

No data available

Viscosity

No data available

Explosive Properties

No information available

Oxidizing Properties

No information available

9.2. Other information**VOC Content (%)**

No data available

SECTION 10: Stability and Reactivity

10.1. Reactivity

Not expected to be reactive.

10.2. Chemical Stability

Stable

10.3. Possibility of Hazardous Reactions

Will Not Occur

10.4. Conditions to Avoid

None anticipated

10.5. Incompatible Materials

Strong oxidizers.

10.6. Hazardous Decomposition Products

Oxides of sulfur. Carbon monoxide and carbon dioxide. Oxides of nitrogen.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects**Acute Toxicity****Inhalation**

May cause respiratory irritation. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Eye Contact

Causes severe eye irritation which may damage tissue.

Skin Contact

Causes skin irritation.

Ingestion

May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation and central nervous system depression.

Chronic Effects/Carcinogenicity

No data available to indicate product or components present at greater than 0.1% are chronic health hazards.

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	> 2,000 mg/kg (Rat) (similar substance)	> 2,000 mg/kg (Rat) (similar substance) 4000-12000 mg/kg (Rats) (similar substance)	No data available
Hexylene glycol	107-41-5	3692 mg/kg (Rat) > 1,400 mg/kg (Rat) (similar substance)	> 2000 mg/kg (Rat) 8560 µL/kg (Rabbit)	> the saturated vapour concentration at room temperature (Rat)
Cocobetaine	61789-40-0	4900 mg/kg (Rat) 5000 mg/kg (Rat) 7900 mg/kg (Rat) >10000 mg/kg (Rat)	> 2000 mg/kg (Rat)	No data available
Alcohols, C6-10, ethoxylated	70879-83-3	600 mg/kg (Rat) (similar substances) 1600 mg/kg (Rat) (similar substance) > 5000 mg/kg (Rat) (similar substance)	> 5200 mg/kg (rabbit) (similar substances) > 2000 mg/kg (rat) (similar substance) 2500 mg/kg (rabbit) (similar substance)	> saturated concentration (similar substance)

Substances	CAS Number	Skin corrosion/irritation
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Causes moderate skin irritation. (Rabbit) (similar substances)
Hexylene glycol	107-41-5	Causes mild skin irritation (Rabbit)
Cocobetaine	61789-40-0	Non-irritating to the skin (Rabbit)
Alcohols, C6-10, ethoxylated	70879-83-3	May cause moderate skin irritation. (Rabbit) (similar substances)

Substances	CAS Number	Eye damage/irritation
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Causes severe eye irritation. (Rabbit) (similar substances)
Hexylene glycol	107-41-5	Causes eye irritation (Rabbit)
Cocobetaine	61789-40-0	Causes severe eye irritation. (Rabbit)

Alcohols, C6-10, ethoxylated	70879-83-3	Causes severe eye irritation. (Rabbit) (similar substances)
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Substances	CAS Number	Skin Sensitization
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Did not cause sensitization on laboratory animals (guinea pig) (similar substances)
Hexylene glycol	107-41-5	Did not cause sensitization on laboratory animals (guinea pig)
Cocobetaine	61789-40-0	Did not cause sensitization on laboratory animals (guinea pig)
Alcohols, C6-10, ethoxylated	70879-83-3	Did not cause sensitization on laboratory animals (similar substances)

Substances	CAS Number	Respiratory Sensitization
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	No information available
Hexylene glycol	107-41-5	No information available
Cocobetaine	61789-40-0	No information available
Alcohols, C6-10, ethoxylated	70879-83-3	No information available

Substances	CAS Number	Mutagenic Effects
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects. (similar substances)
Hexylene glycol	107-41-5	In vitro tests did not show mutagenic effects
Cocobetaine	61789-40-0	In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects.
Alcohols, C6-10, ethoxylated	70879-83-3	In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects. (similar substances)

Substances	CAS Number	Carcinogenic Effects
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Did not show carcinogenic effects in animal experiments (similar substances)
Hexylene glycol	107-41-5	No information available.
Cocobetaine	61789-40-0	Did not show carcinogenic effects in animal experiments
Alcohols, C6-10, ethoxylated	70879-83-3	Did not show carcinogenic effects in animal experiments (similar substances)

Substances	CAS Number	Reproductive toxicity
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Did not show teratogenic effects in animal experiments. (similar substances)
Hexylene glycol	107-41-5	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.
Cocobetaine	61789-40-0	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.
Alcohols, C6-10, ethoxylated	70879-83-3	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments. (similar substances)

Substances	CAS Number	STOT - single exposure
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)
Hexylene glycol	107-41-5	No significant toxicity observed in animal studies at concentration requiring classification.
Cocobetaine	61789-40-0	No significant toxicity observed in animal studies at concentration requiring classification.
Alcohols, C6-10, ethoxylated	70879-83-3	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)

Substances	CAS Number	STOT - repeated exposure
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)
Hexylene glycol	107-41-5	No significant toxicity observed in animal studies at concentration requiring classification.
Cocobetaine	61789-40-0	No significant toxicity observed in animal studies at concentration requiring classification.
Alcohols, C6-10, ethoxylated	70879-83-3	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)

ethoxylated		substances)
Substances	CAS Number	Aspiration hazard
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Not applicable
Hexylene glycol	107-41-5	No information available
Cocobetaine	61789-40-0	Not applicable
Alcohols, C6-10, ethoxylated	70879-83-3	Not applicable

SECTION 12: Ecological Information

12.1. Toxicity Ecotoxicity Effects

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	EC50 (72h) 73.52 mg/L (Skeletonema costatum) ErC50 (72h) 32 mg/L (Selenstrum capricornutum) (similar substance) NOEC (72h) 9 mg/L (Selenastrum capricornutum) NOEC (72h) 32 mg/L (Skeletonema costatum)	LC50 (96h) 1 - 2.5 mg/L (Salmo trutta) (similar substance) LC50 (96h) 7.8 mg/L (Scophthalmus maximus) NOEC (30d) 0.88 mg/L (Pimephales promelas) (similar substance)	No information available	EC50 (48h) 1.17 mg/L (Daphnia magna) (similar substance) LC50 (96h) 232.5 mg/L (Acartia tonsa) NOEC (21d) 0.37 mg/L (Daphnia magna) (similar substance)
Hexylene glycol	107-41-5	EC50 (72h) > 429 mg/L (Selenastrum capricornutum)	LC50 (96h) 10500 - 11000 mg/L (Pimephales promelas) LC50 (96h) 10000 mg/L (Lepomis macrochirus) LC50 (96h) 8690 mg/L (Pimephales promelas) LC50 (96h) 9450 mg/L (Oncorhynchus mykiss)	Inhibitory Concentration (10d) > 1000 mg/L (Pseudomonas aeruginosa)	EC50 2700 - 3700 mg/L EC50 (48h) 2800 mg/L (Ceriodaphnia reticulata)
Cocobetaine	61789-40-0	EC50 (72h) 9.86 mg/L (Scenedesmus subspicatus) NOEC (72h) 3.55 mg/L (Scenedesmus subspicatus)	LC50 (96h) .0 - 10.0 mg/L (Brachydanio rerio) NOEC (28d) 16 mg/L (Oncorhynchus mykiss)	No information available	EC50 (48h) 6.5 mg/L (Daphnia magna) NOEC (21d) 0.03 mg/L (Daphnia magna)
Alcohols, C6-10, ethoxylated	70879-83-3	EC50 (72h) 0.7 mg/L (Selenstrum capricornutum) (similar substance) EC50 (72h) 1.1 mg/L (Scenedesmus subspicatus) (similar substance)	EC50 (96h) 1.4 mg/L (Pimephales promelas) (similar substance) EC50 (96h) 3 mg/L (Brachydanio rerio) (similar substance) NOEC (30d) 0.28 mg/L (Pimephales promelas) (similar substance) NOEC (16d) 0.16 mg/L (Lepomis macrochirus) (similar substance)	No information available	EC50 (48h) 0.2 mg/L (Daphnia magna) (similar substance) EC50 (48h) 0.39 mg/L (Ceriodaphnia dubia) (similar substance)

12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Readily biodegradable (87% @ 28d) (similar substances)
Hexylene glycol	107-41-5	Readily biodegradable (60 @ 14d)
Cocobetaine	61789-40-0	Readily biodegradable (90% @ 28d)
Alcohols, C6-10, ethoxylated	70879-83-3	Readily biodegradable

12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
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Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	No information available
Hexylene glycol	107-41-5	<0.14
Cocobetaine	61789-40-0	No information available
Alcohols, C6-10, ethoxylated	70879-83-3	12.7 - 237 L/kg (similar substance)

12.4. Mobility in soil

Substances	CAS Number	Mobility
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	No information available
Hexylene glycol	107-41-5	No information available
Cocobetaine	61789-40-0	No information available
Alcohols, C6-10, ethoxylated	70879-83-3	No information available

12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Substances	PBT and vPvB assessment
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	Not PBT/vPvB
Hexylene glycol	Not PBT/vPvB
Cocobetaine	Not PBT/vPvB
Alcohols, C6-10, ethoxylated	Not PBT/vPvB

12.6. Other adverse effects

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Disposal Method

Disposal should be made in accordance with federal, state, and local regulations.

Contaminated Packaging

Follow all applicable national or local regulations.

SECTION 14: Transport Information

IMDG/IMO

UN Number:	Not restricted
UN Proper Shipping Name:	Not restricted
Transport Hazard Class(es):	Not applicable
Packing Group:	Not applicable
Environmental Hazards:	Not applicable

RID

UN Number:	Not restricted
UN Proper Shipping Name:	Not restricted
Transport Hazard Class(es):	Not applicable
Packing Group:	Not applicable
Environmental Hazards:	Not applicable

ADR

UN Number:	Not restricted
UN Proper Shipping Name:	Not restricted
Transport Hazard Class(es):	Not applicable
Packing Group:	Not applicable
Environmental Hazards:	Not applicable

IATA/ICAO

UN Number:	Not restricted
UN Proper Shipping Name:	Not restricted
Transport Hazard Class(es):	Not applicable
Packing Group:	Not applicable
Environmental Hazards:	Not applicable

14.1. UN Number: Not restricted

14.2. UN Proper Shipping Name: Not restricted

14.3. Transport Hazard Class(es): Not applicable

14.4. Packing Group: Not applicable

14.5. Environmental Hazards: Not applicable

14.6. Special Precautions for User: None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

EINECS Inventory

This product, and all its components, complies with EINECS

US TSCA Inventory

All components listed on inventory or are exempt.

Canadian DSL Inventory

All components listed on inventory or are exempt.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

Germany, Water Endangering Classes (WGK)

WGK 1: Low hazard to waters.

15.2. Chemical Safety Assessment

No information available

SECTION 16: Other Information

Full text of H-Statements referred to under sections 2 and 3

H226 - Flammable liquid and vapor

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

Key or legend to abbreviations and acronyms

bw – body weight

CAS – Chemical Abstracts Service

CLP – REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on Classification, Labelling and Packaging of substances and mixtures

EC – European Commission

EC10 – Effective Concentration 10%

EC50 – Effective Concentration 50%

EEC – European Economic Community

ErC50 – Effective Concentration growth rate 50%

IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

LC50 – Lethal Concentration 50%

LD50 – Lethal Dose 50%

LL0 – Lethal Loading 0%

LL50 – Lethal Loading 50%

MARPOL – International Convention for the Prevention of Pollution from Ships

mg/kg – milligram/kilogram

mg/L – milligram/liter

NIOSH – National Institute for Occupational Safety and Health

NOEC – No Observed Effect Concentration

NTP – National Toxicology Program

OEL – Occupational Exposure Limit

PBT – Persistent Bioaccumulative and Toxic

PC – Chemical Product category

PEL – Permissible Exposure Limit

ppm – parts per million

PROC – Process category

REACH – REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL – Short Term Exposure Limit

SU – Sector of Use category

Key literature references and sources for data

www.ChemADVISOR.com/

Revision Date: 24-Sep-2015

Revision Note

SDS sections updated: 1

This safety data sheet complies with the requirements of Regulation (EC) No. 453/2010

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End of Safety Data Sheet