

SAFETY DATA SHEET ZoneSealant 2000

according to Regulation (EC) No. 2015/830

Revision Date: 02-Oct-2020
Preparation Date 02-Oct-2020

Revision Number: 38
Internal ID Code HM003249

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

1.1. Product Identifier

Product Name ZoneSealant 2000
Internal ID Code HM003249

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

Recommended Use Foam Stabilizer
Sector of uses SU2 - Mining, (including offshore industries)
Uses advised against Consumer use

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
+44 1224 776888

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

Global Incident Response Access Code: 334305

Contract Number: 14012

Emergency telephone - Article 45 - (EC)1272/2008	
Turkey	Ulusal Zehir Danisma Merkezi (UZEM) :114 Acil Saglik Hizmetleri : 112
Europe	112
Bulgaria	Bulgarian poison centre: +359 2 915-44-09 or +359 2 915-43-46
Croatia	Centar za kontrolu otrovanja (CKO): (+385 1) 23-48-342 (Poison Control Center (PCC) - Institute for Medical Research and Occupational Health)
Cyprus	1401; +357 22 88 7171
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
Israel	Acute poisoning (hotline): 04-7771900 (24/7)
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
Portugal	CIAV - Centro de Informação Antivenenos (Portuguese Poison Centre): + 351 213 303 271
Romania	+40 21 318 36 06
Spain	Poison Information Service (ES): +34 91 562 04 20

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United Kingdom	NHS Direct (UK): +44 0845 46 47
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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/Irritation	Category 1 - H318
Chronic Aquatic Toxicity	Category 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:

P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P332 + P313 - If skin irritation occurs: Get medical advice/attention
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

CAS Number

Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0
Isopropanol	67-63-0
Cocoamidopropylamine oxide	68155-09-9

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	EU - CLP Substance	REACH Reg. No
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			(w/w)	Classification	
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	614-215-8	68037-05-8	30 - 60%	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	No data available
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	263-058-8	61789-40-0	5 - 10%	Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	No data available
Isopropanol	200-661-7	67-63-0	5 - 10%	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H336)	No data available
Cocoamidopropylamine oxide	268-938-5	68155-09-9	1 - 5%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	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

In case of contact, immediately flush eyes with plenty of water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Seek immediate medical attention/advice. Suitable emergency eye wash facility should be immediately available

Skin

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention.

Ingestion

Do NOT induce vomiting. Give nothing by mouth. Obtain immediate medical attention.

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

Causes severe eye irritation which may damage tissue. Causes skin irritation. May be harmful if swallowed.

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 in a fire

Decomposition in fire may produce harmful gases.

5.3. Advice for firefighters

Special protective equipment for firefighters

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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. Remove sources of ignition. 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

Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

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

Use appropriate protective equipment. Avoid contact with eyes, skin, or clothing. Wash hands after use. Launder contaminated clothing before reuse. Avoid breathing vapors. Ensure adequate ventilation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool well ventilated area. Store away from oxidizers. Keep container closed when not in use. Store at temperatures between 50 and 100 F (10 and 37.8 C). Do not freeze. 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
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	Not applicable	Not applicable	Not applicable	Not applicable
Isopropanol	67-63-0	Not applicable	TWA: 400 ppm TWA: 999 mg/m ³ STEL: 500 ppm STEL: 1250 mg/m ³	Not applicable	STEL: 400 ppm STEL: 980 mg/m ³
Cocoamidopropylamine oxide	68155-09-9	Not applicable	Not applicable	Not applicable	Not applicable

Substances	CAS Number	Germany	Spain	Portugal	Finland
Polyethylene glycol	68037-05-8	Not applicable	Not applicable	Not applicable	Not applicable

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(C6-C10) alkyl ether, sulfate ammonium salt					
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	Not applicable	Not applicable	Not applicable	Not applicable
Isopropanol	67-63-0	TWA: 200 ppm TWA: 500 mg/m ³ Peak: 400 ppm Peak: 1000 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³ 400 ppm STEL [VLA-EC]; 1000 mg/m ³ STEL [VLA-EC]	TWA: 200 ppm STEL: 400 ppm	TWA: 200 ppm TWA: 500 mg/m ³ STEL: 250 ppm STEL: 620 mg/m ³
Cocoamidopropylamine oxide	68155-09-9	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
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	Not applicable	Not applicable	Not applicable	Not applicable
Isopropanol	67-63-0	TWA: 200 ppm TWA: 500 mg/m ³ STEL" 800 ppm STEL" 2000 mg/m ³	200 ppm TWA 400 ppm STEL	TWA: 200 ppm TWA: 500 mg/m ³ STEL: 400 ppm STEL: 1000 mg/m ³	TWA: 100 ppm TWA: 245 mg/m ³ STEL: 125 ppm STEL: 306.25 mg/m ³
Cocoamidopropylamine oxide	68155-09-9	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
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	Not applicable	Not applicable	Not applicable	Not applicable
Isopropanol	67-63-0	Not applicable	TWA: 900 mg/m ³ STEL: 1200 mg/m ³	TWA: 500 mg/m ³ STEL: 2000 mg/m ³	TWA: 500 mg/m ³
Cocoamidopropylamine oxide	68155-09-9	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
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	Not applicable	Not applicable	Not applicable	Not applicable
Isopropanol	67-63-0	TWA: 200 ppm TWA: 490 mg/m ³	TWA: 81 ppm TWA: 200 mg/m ³ STEL: 203 ppm STEL: 500 mg/m ³	TWA: 400 ppm TWA: 999 mg/m ³ STEL: 500 ppm STEL: 1250 mg/m ³	Not applicable
Cocoamidopropylamine oxide	68155-09-9	Not applicable	Not applicable	Not applicable	Not applicable

Substances	CAS Number	Bulgaria	Turkey
Isopropanol	67-63-0	TWA: 980.0 mg/m ³	Not applicable

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	STEL: 1225.0 mg/m ³	
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Component	European Union	United Kingdom	France	Spain	Germany
Isopropanol 67-63-0 (5 - 10%)				40 mg/L	25 mg/L whole blood 25 mg/L urine
Substances	Austria	Switzerland	Poland	Norway	Ireland
Isopropanol 67-63-0 (5 - 10%)		25 mg/L			40 mg/L

Derived No Effect Level (DNEL)

No information available

Worker

Substances	Long-term exposure - systemic effects, Inhalation	Acute / short term exposure - systemic effects, Inhalation	Long-term exposure - local effects, Inhalation	Acute / short term exposure - local effects, Inhalation	Long-term exposure - systemic effects, Dermal	Acute / short term exposure - systemic effects, Dermal	Long-term exposure - local effects, Dermal	Acute / short term exposure - local effects, Dermal	Hazards for the eyes - local effects
Isopropanol	500 mg/m ³	Not available	Not available	Not available	888 mg/kg bw/day	Not available	Not available	Not available	Not available

General Population

Substances	Long-term exposure - systemic effects, Inhalation	Acute / short term exposure - systemic effects, Inhalation	Long-term exposure - local effects, Inhalation	Acute / short term exposure - local effects, Inhalation	Long-term exposure - systemic effects, Dermal	Acute / short term exposure - systemic effects, Dermal	Long-term exposure - local effects, Dermal	Acute / short term exposure - local effects, Dermal	Long-term exposure - systemic effects, Oral	Acute / short term exposure - local effects, Oral	Hazards for the eyes - local effects
Isopropanol	89 mg/m ³	Not available	Not available	Not available	319 mg/kg bw/day	Not available	Not available	Not available	26 mg/kg bw/day	Not available	Not available

Predicted No Effect Concentration (PNEC)

No information available.

Substances	Freshwater	Marine water	Intermittent release	Sewage treatment plant	Sediment (freshwater)	Sediment (marine water)	Air	Soil	Secondary poisoning
Isopropanol	140.9 mg/L	140.9 mg/L	140.9 mg/L	2251 mg/L	552 mg/kg sediment dw	552 mg/kg sediment dw	Not available	28 mg/kg soil dw	160 mg/kg food

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

In high concentrations, supplied air respirator or a self-contained breathing apparatus. Impervious gloves 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

No information available

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid	Color	Light yellow
Odor: Sweet	Odor	No information available
<u>Property</u>	Threshold:	
<u>Remarks/ - Method</u>	<u>Values</u>	
pH:	6.0 - 7.5	
Freezing Point / Range	No data available	
Melting Point / Range	No data available	
Pour Point / Range	No data available	
Boiling Point / Range	No data available	
Flash Point	> 93.3 °C / > 200 °F (Closed cup)	
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	1.06	
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	< 1000 mPas @ 25°C	
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

Do not freeze

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Inhalation

Eye Contact

Skin Contact

Ingestion

May cause respiratory irritation.
Causes severe eye irritation which may damage tissue.
Causes moderate skin irritation.
May be harmful if swallowed. May cause abdominal pain, vomiting, nausea, and diarrhea.

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	4100 mg/kg (Rat) (Similar substance)	>5000 mg/kg (Rabbit (Similar substance)	No data available
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	4900 mg/kg-bw (rat)	>2000 mg/kg-bw (rat)	No data available
Isopropanol	67-63-0	4700 mg/kg-bw (rat)	12870 mg/kg-bw (rabbit)	72.6 mg/L (Rat, 4h, vapor)
Cocoamidopropylamine oxide	68155-09-9	1064 mg/kg-bw (rat) (similar substance)	> 2174 mg/kg bw (Rat)	No data available

Rat = Rat, Rabbit = Rabbit, Guinea pig = Cobaia, similar substance = 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)
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	Not irritating to skin in rabbits.
Isopropanol	67-63-0	Non-irritating to the skin (Rabbit)
Cocoamidopropylamine oxide	68155-09-9	Non-irritating to the skin (Rabbit) (similar substances)

Substances	CAS Number	Serious eye damage/irritation
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Causes severe eye irritation (Rabbit) (similar substances)
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	Causes severe eye irritation (Rabbit)
Isopropanol	67-63-0	Causes moderate eye irritation (Rabbit)
Cocoamidopropylamine oxide	68155-09-9	Eye, rabbit: Causes severe eye irritation (similar substances)

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)
1-Propanaminium,	61789-40-0	Did not cause sensitization on laboratory animals (guinea pig)

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3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts		
Isopropanol	67-63-0	Did not cause sensitization on laboratory animals (guinea pig)
Cocoamidopropylamine oxide	68155-09-9	Did not cause sensitization on laboratory animals (guinea pig) (similar substances)

Substances	CAS Number	Respiratory Sensitization
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	No information available
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	No information available
Isopropanol	67-63-0	No information available
Cocoamidopropylamine oxide	68155-09-9	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)
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects.
Isopropanol	67-63-0	In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects.
Cocoamidopropylamine oxide	68155-09-9	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)
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	Did not show carcinogenic effects in animal experiments
Isopropanol	67-63-0	Did not show carcinogenic effects in animal experiments
Cocoamidopropylamine oxide	68155-09-9	Did not show carcinogenic effects in animal experiments Rat (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)
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.
Isopropanol	67-63-0	Animal testing did not show any effects on fertility.
Cocoamidopropylamine oxide	68155-09-9	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	68037-05-8	No significant toxicity observed in animal studies at concentration requiring classification. (similar

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(C6-C10) alkyl ether, sulfate ammonium salt		substances)
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	No significant toxicity observed in animal studies at concentration requiring classification.
Isopropanol	67-63-0	May cause headache, dizziness, and other central nervous system effects.
Cocoamidopropylamine oxide	68155-09-9	No significant toxicity observed in animal studies at concentration requiring classification.

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)
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	No significant toxicity observed in animal studies at concentration requiring classification.
Isopropanol	67-63-0	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)
Cocoamidopropylamine oxide	68155-09-9	No significant toxicity observed in animal studies at concentration requiring classification.

Substances	CAS Number	Aspiration hazard
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Not applicable
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	Not applicable
Isopropanol	67-63-0	Not applicable
Cocoamidopropylamine oxide	68155-09-9	Not applicable

SECTION 12: Ecological information

12.1. Toxicity

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) NOErC (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) 350 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)
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner	61789-40-0	EC50 (96 h) 0.55 mg/L (Desmodosmus subspicatus) EC50 (72 h) 17.2 mg/L (Scenedesmus)	LC50 (96 h) 2 mg/L (Brachydanio rerio) NOEC (28 d) 16 mg/L (Oncorhynchus mykiss)	No information available	EC50 (48 h) 6.5 mg/L (Daphnia magna) NOEC (21 d) 0.9 mg/L (Daphnia magna) NOEC (21 d) 0.932 mg/L

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salts		subspicatus) EC50 (72 h) 9.86 mg/L (Scenedesmus subspicatus) EC50 (72 h) 30 mg/L (Scenedesmus subspicatus)			(Daphnia magna) NOEC (21 d) 2.98 mg/L (Daphnia magna) NOEC (21 d) 0.03 mg/L (Daphnia magna) NOEC (21 d) 0.065 mg/L (Daphnia magna)
Isopropanol	67-63-0	EC50 (72h) > 1000 mg/L (Desmodesmus subspicatus) EC50 (7d) 1800 mg/L (meanextinction value)(Scenedesmus quadricauda)	LC50 (96h) 9640 mg/L (Pimephales promelas) LC50 (7d) 7060 mg/L (Poecilia reticulata)	TT (16h) 1050 mg/L (Pseudomonas putida)	EC50 (48 h)=2285 mg/L (Daphnia sp.) EC50 (24h) > 10,000 mg/L (Daphnia magna)
Cocoamidopropylamine oxide	68155-09-9	EC50 (72 h) 1.81 mg/L (Skeletonema costatum) NOEC (28 d) ?0.067 mg/L (Periphyton community)	LC50 (96h) > 1.0 mg/L (Scophthalmus maximus)	No information available	EC50 (48h) 21.0 mg/L (Acartia tonsa)

growth rate = growth rate, similar substance = similar substance, activated sludge = activated sludge, reproduction = reproduction

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
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	Readily biodegradable (>90% @ 28d)
Isopropanol	67-63-0	Readily biodegradable (53% @ 5d)
Cocoamidopropylamine oxide	68155-09-9	Readily biodegradable (97% @ 28d)

12.3. Bioaccumulative potential

Substances	CAS Number	Bioaccumulation
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Log Pow = 0.7
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	Log Pow =0.9
Isopropanol	67-63-0	LogPow < 4.5
Cocoamidopropylamine oxide	68155-09-9	Log Kow < 4.5

12.4. Mobility in soil

Substances	CAS Number	Mobility
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	No information available
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	No information available
Isopropanol	67-63-0	No information available
Cocoamidopropylamine oxide	68155-09-9	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

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Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	Not PBT/vPvB
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	Not PBT/vPvB
Isopropanol	Not PBT/vPvB
Cocoamidopropylamine oxide	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 methods

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

ADN

UN Number Not restricted
UN proper shipping name: Not restricted
Packing Group Not applicable
Environmental Hazards: Not applicable

ADR/RID

UN Number Not restricted
UN proper shipping name: Not restricted
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.

14.4. Packing Group

Not applicable

14.5. Environmental Hazards:

Not applicable

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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

US TSCA Inventory All components listed on inventory or are exempt.
Canadian Domestic Substances List (DSL) 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/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Germany, Water Endangering Classes (WGK) WGK 2: Hazard to waters.

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.
Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

Substances	CAS Number	Seveso III	TA LUFT
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Not applicable	Not applicable
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	Not applicable	Not applicable
Isopropanol	67-63-0	Not applicable	Not applicable
Cocoamidopropylamine oxide	68155-09-9	Not applicable	Not applicable

Substances	CAS Number	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Not applicable	Not applicable
1-Propanaminium, 3-amino-n-(carboxy methyl)-n,n-dimethyl-n-coco alkyl derivatives, hydroxides and inner salts	61789-40-0	Not applicable	Not applicable
Isopropanol	67-63-0	Not applicable	Not applicable
Cocoamidopropylamine oxide	68155-09-9	Not applicable	Not applicable

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

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

H225 - Highly flammable liquid and vapor

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H302 - Harmful if swallowed
H315 - Causes skin irritation
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
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 used in the safety data sheet

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/
NZ CCID
HERA
OSHA
ECHA C&L

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Revision Note

SDS sections updated:

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This safety data sheet complies with the requirements of Regulation (EC) No. 2015/830

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End of Safety Data Sheet