

SAFETY DATA SHEET

Fomtec Enviro SEA 3%

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Trade name**

Fomtec Enviro SEA 3%

Product no.

11-6303-01

Unique formula identifier (UFI)

HHKS-TR6W-0U3H-QJFF

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

Appliance protection

Restricted to professional users.

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet**Company and address****Dafo Fomtec AB**

Box 683

SE-13526 Tyresö

Sweden

+46 8 506 405 00

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www.fomtec.com

Contact person

CHR

E-mail

info@fomtec.com

Revision

16/01/2024

SDS Version

2.0

Date of previous version

18/09/2023 (1.0)

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

NCEC CareChem24: +44 1273 289451

Additional Emergency Phone Number in section 16

SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

2.1. Classification of the substance or mixture

Eye Dam. 1; H318, Causes serious eye damage.

Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Causes serious eye damage. (H318)

Harmful to aquatic life with long lasting effects. (H412)

Precautionary statement(s)

General

-

Prevention

Avoid release to the environment. (P273)

Wear eye protection/protective gloves/protective clothing. (P280)

Response

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

Immediately call a POISON CENTER/doctor. (P310)

Storage

-

Disposal

Dispose of contents/container in accordance with local regulation (P501)

Hazardous substances

1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts

Sulfuric acid, mono-C12-14-alkyl esters, compds. with triethanolamine

Additional labelling

UFI: HHKS-TR6W-0U3H-QJFF

2.3. Other hazards

▼ Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered)	CAS No.: 1469983-49-0 EC No.: 939-455-3	5-10%	Eye Dam. 1, H318 Aquatic Chronic 2, H411	

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

acyl) derivs., hydroxides, inner salts	UK-REACH: UK-01- 5723494305-8-xxxx			
	Index No.:			
2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve	CAS No.: 111-76-2 EC No.: 203-905-0 UK-REACH: Index No.: 603-014-00-0	3-5%	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 3, H331	[1]
Sulfuric acid, mono-C12- 14-alkyl esters, compds. with triethanolamine	CAS No.: 90583-18-9 EC No.: 292-216-9 UK-REACH: 01-2119970645- 28 Index No.:	1-3%	Skin Irrit. 2, H315 Eye Dam. 1, H318 (SCL: 20.00 %) Aquatic Chronic 3, H412	
ethanediol	CAS No.: 107-21-1 EC No.: 203-473-3 UK-REACH: 01-2119456816- 28-XXXX Index No.: 603-027-00-1	1-3%	Acute Tox. 4, H302 STOT RE 2, H373 (Oral)	[1]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

Eye contact

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns

Not applicable.

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

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

The product is not flammable

5.2. Special hazards arising from the substance or mixture

None

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. ▼ Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid direct contact with the product.

Avoid contact during pregnancy and while nursing.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

Dry, cool and well ventilated (< 55 °C)

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve

Long term exposure limit (8 hours) (ppm): 25

Long term exposure limit (8 hours) (mg/m³): 123

Short term exposure limit (15 minutes) (ppm): 50

Short term exposure limit (15 minutes) (mg/m³): 246

Annotations:

BMVG = Biological Monitoring Guidance Value exists

Sk = Can be absorbed through the skin and lead to systemic toxicity.

ethanediol

Long term exposure limit (8 hours) (ppm): 20(vapour)

Long term exposure limit (8 hours) (mg/m³): 10(particulate)/52(vapour)

Short term exposure limit (15 minutes) (ppm): 40 (vapour)

Short term exposure limit (15 minutes) (mg/m³): 104 (vapour)

Annotations:

Sk = Can be absorbed through the skin and lead to systemic toxicity.

propane-1,2-diol

Long term exposure limit (8 hours) (ppm): 150(total)

Long term exposure limit (8 hours) (mg/m³): 474(total)/10(particulates)

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.

EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	3000 µg/kgbw/day
Long term – Systemic effects - General population	Dermal	3 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	6000 µg/kgbw/day

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

Long term – Systemic effects - Workers	Dermal	6 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	5200 µg/m ³
Long term – Systemic effects - General population	Inhalation	5.2 mg/m ³
Long term – Systemic effects - Workers	Inhalation	21 200 µg/m ³
Long term – Systemic effects - Workers	Inhalation	21.2 mg/m ³
Long term – Systemic effects - General population	Oral	3000 µg/kgbw/day
Long term – Systemic effects - General population	Oral	3 mg/kg bw/day

2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	75 mg/kg
Long term – Systemic effects - Workers	Dermal	125 mg/kg
Short term – Systemic effects - Workers	Dermal	89 mg/kg
Long term – Systemic effects - General population	Inhalation	59 mg/m ³
Long term – Systemic effects - General population	Inhalation	59 mg/m ³
Long term – Systemic effects - Workers	Inhalation	98 mg/kg
Long term – Systemic effects - Workers	Inhalation	98 mg/m ³
Short term – Local effects - General population	Inhalation	147 mg/ m ³
Short term – Local effects - General population	Inhalation	147 mg/m ³

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

Short term – Local effects - Workers	Inhalation	246 mg/ m3
Short term – Local effects - Workers	Inhalation	246 mg/m ³
Short term – Systemic effects - General population	Inhalation	426 mg/ m3
Short term – Systemic effects - General population	Inhalation	426 mg/m ³
Short term – Systemic effects - Workers	Inhalation	1091 mg/m3
Short term – Systemic effects - Workers	Inhalation	1091 mg/m ³
Long term	Oral	6.3 mg/kg
Long term – Systemic effects - General population	Oral	6.3 mg/kg bw/day
Short term – Systemic effects - General population	Oral	26.7 mg/ kg
Short term – Systemic effects - General population	Oral	26.7 mg/kg bw/day

ethanediol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	53 mg/kg
Long term – Systemic effects - General population	Dermal	53 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	106 mg/kg
Long term – Systemic effects - Workers	Dermal	106 mg/kg bw/day
Long term – Local effects - General population	Inhalation	7 mg/m3
Long term – Local effects - General population	Inhalation	7 mg/m ³

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

Long term – Local effects - Workers	Inhalation	35 mg/m ³
Long term – Local effects - Workers	Inhalation	35 mg/m ³
propane-1,2-diol		
Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	10 mg/m ³
Long term – Local effects - General population	Inhalation	10 mg/m ³
Long term – Local effects - Workers	Inhalation	10 mg /m ³
Long term – Local effects - Workers	Inhalation	10 mg/m ³
Long term – Systemic effects - General population	Inhalation	50 mg/m ³
Long term – Systemic effects - General population	Inhalation	50 mg/m ³
Long term – Systemic effects - Workers	Inhalation	168 mg/m ³
Long term – Systemic effects - Workers	Inhalation	168 mg/m ³
Sulfuric acid, mono-C12-14-alkyl esters, compds. with triethanolamine		
Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	2440 mg/kg
Long term – Systemic effects - General population	Dermal	2440 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	4060 mg/kg
Long term – Systemic effects - Workers	Dermal	4060 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	85 mg/m ³

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

Long term – Systemic effects - General population	Inhalation	85 mg/m ³
Long term – Systemic effects - Workers	Inhalation	285 mg/m ³
Long term – Systemic effects - Workers	Inhalation	285 mg/m ³
Long term – Systemic effects - General population	Oral	24 mg/kg
Long term – Systemic effects - General population	Oral	24 mg/kg bw/day

PNEC

1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		7.5 µg/L
Freshwater sediment		124 µg/kg
Intermittent release (freshwater)		26.6 µg/L
Intermittent release (marine water)		2.66 µg/L
Marine water		750 ng/L
Marine water sediment		12.4 µg/kg
Sewage treatment plant		100 mg/L
Soil		20.4 µg/kg

2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		8.8 mg/l
Freshwater		8.8 mg/L
Freshwater sediment		34.6 mg/lkg
Freshwater sediment		34.6 mg/kg
Intermittent release		9.1 mg/l
Intermittent release (freshwater)		26.4 mg/L

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

Marine water	0.88 mg/l
Marine water	880 µg/L
Marine water sediment	3.46 mg/kg
Marine water sediment	3.46 mg/kg
Predators	20 mg/kg
Sewage treatment plant	463 mg/L
Soil	2.33 mg/kg
Soil	2.33 mg/kg

ethanediol

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		10 mg/L
Freshwater		10 mg/L
Freshwater sediment		37 mg/kg
Freshwater sediment		37 mg/kg
Intermittent release (freshwater)		10 mg/L
Intermittent release (marine water)		10 mg/L
Marine water		1 mg/L
Marine water		1 mg/L
Marine water sediment		3.7 mg/kg
Marine water sediment		3.7 mg/kg
Sewage treatment plant		199.5 mg/L
Soil		1.53 mg/kg
Soil		1.53 mg/kg

propane-1,2-diol

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		260 mg/l
Freshwater		260 mg/L
Freshwater sediment		572 mg/kg

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

Freshwater sediment	572 mg/kg
Intermittent release	183 mg/l
Intermittent release (freshwater)	183 mg/L
Marine water	26 mg/l
Marine water	26 mg/L
Marine water sediment	57.2 mg/kg
Marine water sediment	57.2 mg/kg
Sewage treatment plant	2000 mg/l
Sewage treatment plant	20 g/L
Soil	50 mg/ kg
Soil	50 mg/kg

Sulfuric acid, mono-C12-14-alkyl esters, compds. with triethanolamine

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		0.012 mg/l
Freshwater		12 µg/L
Freshwater sediment		0.422 mg/kg
Freshwater sediment		422 µg/kg
Intermittent release (freshwater)		36 µg/L
Marine water		0.0012 mg/l
Marine water		1.2 µg/L
Marine water sediment		0.0422 mg/kg
Marine water sediment		42.2 µg/kg
Sewage treatment plant		1.35 mg/L
Soil		0.083 mg/kg
Soil		83 µg/kg

8.2. ▼ Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

▼ Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment


Generally

Use only UKCA marked protective equipment.


Respiratory Equipment

No specific requirements


Skin protection

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Vinyl/PVC	0.6	-	-	

Eye protection

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Pale yellow

Odour / Odour threshold

Characteristic

pH

6,5-8,5

Density (g/cm³)

~1,026 (20 °C)

Kinematic viscosity

Testing not relevant or not possible due to the nature of the product.

Particle characteristics

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)

0

Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

Boiling point (°C)

Testing not relevant or not possible due to the nature of the product.

Vapour pressure

Testing not relevant or not possible due to the nature of the product.

Relative vapour density

Testing not relevant or not possible due to the nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C)

Testing not relevant or not possible due to the nature of the product.

Flammability (°C)

Testing not relevant or not possible due to the nature of the product.

Auto-ignition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to the nature of the product.

Solubility

Solubility in water

Very soluble

n-octanol/water coefficient (LogKow)

Testing not relevant or not possible due to the nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

9.2. Other information

Oxidizing properties

Testing not relevant or not possible due to the nature of the product.

Other physical and chemical parameters

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

Acute toxicity

Product/substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
Test method:	OECD 401
Species:	Rat, male/female
Route of exposure:	Oral
Test:	LD50
Result:	2950 mg/kg
Product/substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
Test method:	OECD 402
Species:	Rat, male/female
Route of exposure:	Dermal
Test:	LD50
Result:	>2000 mg/kg
Product/substance	2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	2000.00 mg/kg
Product/substance	2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve
Species:	Rat
Route of exposure:	Inhalation
Test:	LD50
Result:	2.20 mg/L
Product/substance	ethanediol
Species:	Rat

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

Route of exposure:	Oral
Test:	LD50
Result:	5840.00 mg/kg
Product/substance	ethanediol
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	9530.00 mg/kg
Product/substance	ethanediol
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	7712.00 mg/kg
Product/substance	ethanediol
Species:	Mouse
Route of exposure:	Dermal
Test:	LD50
Result:	3500.00 mg/kg
Product/substance	propane-1,2-diol
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	22000.00 mg/kg
Product/substance	propane-1,2-diol
Species:	Rabbit
Route of exposure:	Inhalation
Test:	LC50
Result:	317042.00 mg/m ³

▼ Skin corrosion/irritation

Product/substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
Test method:	OECD 405
Species:	Rabbit

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

Result:	No adverse effect observed (Not irritating)
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▼ Serious eye damage/irritation

Product/substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
Test method:	OECD 405
Species:	Rabbit

Causes serious eye damage.

▼ Respiratory sensitisation

Product/substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
Test method:	OECD 406
Species:	Guinea pig
Result:	No adverse effect observed (not sensitising)

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Product/substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
Test method:	OECD 422
Species:	Rat, male/female
Test:	NOAEL
Result:	300 mg/kg
Conclusion:	No adverse effect observed

Product/substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
Test method:	OECD 414
Species:	Rat
Conclusion:	No adverse effect observed

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Long term effects

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

▼ Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
Test method:	OECD 203
Species:	Fish, Pimephales promelas
Duration:	96 hours
Test:	LC50
Result:	2,66 mg/L
Product/substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
Species:	Daphnia, Daphnia magna
Duration:	48 hours
Test:	EC50
Result:	4 mg/L
Product/substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	2,26 mg/L
Product/substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
Species:	Algae
Duration:	72 hours
Test:	NOEC

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

Result:	0,76 mg/L
Product/substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
Test method:	OECD 209
Species:	Bacteria
Compartment:	Activated Sludge Plant
Duration:	3 hours
Test:	NOEC
Result:	1000 mg/L
Product/substance	2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	1474.00 mg/L
Product/substance	2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	1840.00 mg/L
Product/substance	2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	1550.00 mg/L
Product/substance	Sulfuric acid, mono-C12-14-alkyl esters, compds. with triethanolamine
Species:	Fish
Duration:	No data available.
Test:	LC50
Result:	10.00 mg/L
Product/substance	Sulfuric acid, mono-C12-14-alkyl esters, compds. with triethanolamine
Species:	Algae
Duration:	No data available.
Test:	EC50

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

Result:	100.00 mg/L
Product/substance	Sulfuric acid, mono-C12-14-alkyl esters, compds. with triethanolamine
Species:	Daphnia
Duration:	No data available.
Test:	EC50
Result:	100.00 mg/L
Product/substance	ethanediol
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	72860.00 mg/L
Product/substance	ethanediol
Species:	Algae
Duration:	96 hours
Test:	EC50
Result:	6500.00 mg/L
Product/substance	ethanediol
Species:	Daphnia
Duration:	No data available.
Test:	NOEC
Result:	8590.00 mg/L
Product/substance	propane-1,2-diol
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	40613.00 mg/L
Product/substance	propane-1,2-diol
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	24200.00 mg/L
Product/substance	propane-1,2-diol
Species:	Daphnia

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

Duration:	48 hours
Test:	LC50
Result:	34400.00 mg/L

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Product/substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
Biodegradable:	Yes
Result:	57%
Product/substance	2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve
Biodegradable:	Yes
Test method:	OECD 301 B
Result:	90%
Product/substance	Sulfuric acid, mono-C12-14-alkyl esters, compds. with triethanolamine
Biodegradable:	Yes
Product/substance	ethanediol
Biodegradable:	Yes
Result:	90 %
Product/substance	propane-1,2-diol
Biodegradable:	Yes
Result:	95,8 %

12.3. ▼ Bioaccumulative potential

Product/substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
Potential bioaccumulation:	No
LogKow:	No data available.
BCF:	No data available.
Product/substance	2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve
Potential bioaccumulation:	No
LogKow:	No data available.
BCF:	No data available.
Product/substance	Sulfuric acid, mono-C12-14-alkyl esters, compds. with triethanolamine

According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

Potential bioaccumulation:	No
LogKow:	No data available.
BCF:	No data available.
Product/substance	ethanediol
Potential bioaccumulation:	No
LogKow:	-1,36
BCF:	No data available.
Product/substance	propane-1,2-diol
Potential bioaccumulation:	No
LogKow:	No data available.
BCF:	No data available.

12.4. Mobility in soil

No data available.

12.5. ▼ Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. ▼ Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

▼ Waste treatment methods

Product is covered by the regulations on hazardous waste. (*)

HP 14 – Ecotoxic

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code

16 03 05* Organic wastes containing dangerous substances

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information



According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group

** Environmental hazards

Additional information

Not dangerous goods according to ADR, IATA and IMDG.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

Additional information

Not applicable.

Sources

The Management of Health and Safety at Work Regulations 1999.

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

▼ SECTION 16: Other information

▼ Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.

H312, Harmful in contact with skin.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H331, Toxic if inhaled.

H373, May cause damage to organs through prolonged or repeated exposure. (Oral)

H411, Toxic to aquatic life with long lasting effects.

H412, Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWG = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

Emergency Phone No.:

France (English, French) +33 1 72 11 00 03

Germany (English , German) + 49 89 220 61 012 / 0800 000 7801
Spain (English, Spanish) + 34 91114 2520
Italy (English, Italian) + 39 02 3604 2884
Netherlands (English, Dutch) + 31 10713 8195
Middle East (English , Arabic) + 44 1273 289454
United States (English, French, Spanish) + 1 866 928 0789
Canada (English, French) + 1 800 579 7421
United States and Canada (English) + 1 202 464 2554
Mexico (English, Spanish) + 52 55 5004 8763
Brazil (Portuguese, Spanish, English) + 55 11 3197 5891
Chile (English, Spanish) + 56 2 2582 9336
Colombia (English, Spanish) + 57 1 508 7337
Argentina (English, Spanish) + 54 11 5984 3690
East/South East Asia (English, Bahasa Malaysia, Hindi, Japanese, Korean, Mandarin, Tagalog) +65 3158 1412
China (English, Mandarin) + 86 512 8090 3042
China (Mainland) (English, Mandarin) + 86 532 8388 9090
Japan (English, Japanese) + 81 3 4578 9341
Malaysia (English, Malaysian) 60 3 6207 4347
India (English, Hindi) 000 800 100 7479 7479
Philippines (English, Tagalog) + 63 28231 2149
South Korea (English, Korean) + 82 2 3479 8401
Australia (English) 18000 74234
New Zealand (English) + 64 9 929 1483
New Zealand (English) 0800 446 881

▼ The safety data sheet is validated by

Charlotta Reimertz

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en