SAFETY DATA SHEET

Fomtec AFFF 6%

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

1.1. Product identifier

Trade name

Fomtec AFFF 6%

Product no.

10-6006-01

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
-
www.fomtec.com

Contact person

CHR

E-mail

info@fomtec.com

Revision

06/11/2023

SDS Version

3.0

Date of previous version

25/10/2022 (2.0)

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

2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

2.2. Label elements

Hazard pictogram(s)

Not applicable.

Signal word

Not applicable.

Hazard statement(s)

Not applicable.

Precautionary statement(s)

General

-

Prevention

-

Response

-

Storage

-

Disposal

-

Hazardous substances

None known.

Additional labelling

EUH210, Safety data sheet available on request.

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

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
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	CAS No.: 112-34-5 EC No.: 203-961-6 UK-REACH: Index No.: 603-096-00-8	3-5%	Eye Irrit. 2, H319	[1], [3]
Blend of Fluorinated substances C6(PFAS)	CAS No.: 00-00-0 EC No.: UK-REACH: Index No.:	<0,3%		
2-methylpentane-2,4-diol	CAS No.: 107-41-5 EC No.: 203-489-0 UK-REACH: Index No.: 603-053-00-3	<0.25%	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d	
C6 fluorotelomer-based surfactant	CAS No.: 00-00-0 EC No.: UK-REACH: Index No.:	<0.25%	Acute Tox. 4, H302 Eye Dam. 1, H318 Repr. 1B, H360FD STOT RE 2, H373 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	

ethanediol	CAS No.: 107-21-1 EC No.: 203-473-3 UK-REACH: Index No.: 603-027-00-1	<0.25%	Acute Tox. 4, H302 STOT RE 2, H373 (Oral)	[1]
methanol	CAS No.: 67-56-1 EC No.: 200-659-6 UK-REACH: Index No.: 603-001-00-X	<0.05%	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 STOT SE 2, H371 (SCL: 3.00 %)	

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.
[3] According to UK REACH, Annex XVII, the substance is subject to restrictions.

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 water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance 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

None known.

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

Treat symptomatically.

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

Fire fighters should wear appropriate personal protective equipment.

SECTION 6: Accidental release measures

6.1. ▼Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas.
Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.
Keep unauthorized persons away from the spill

6.3. ▼Methods and material for containment and cleaning up

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

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-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Long term exposure limit (8 hours) (ppm): 10
Long term exposure limit (8 hours) (mg/m³): 67,5
Short term exposure limit (15 minutes) (ppm): 15
Short term exposure limit (15 minutes) (mg/m³): 101,2
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)
ammonium chloride
Long term exposure limit (8 hours) (mg/m³): 10
Short term exposure limit (15 minutes) (mg/m³): 20
2-methylpentane-2,4-diol
Long term exposure limit (8 hours) (ppm): 25
Long term exposure limit (8 hours) (mg/m³): 123
Short term exposure limit (15 minutes) (ppm): 25
Short term exposure limit (15 minutes) (mg/m³): 123

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.

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

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	50 mg/kg
Long term – Systemic effects - Workers	Dermal	83mg/kg
Long term – Local effects - Workers	Inhalation	67.5 mg/m³
Long term – Systemic effects - Workers	Inhalation	68 mg/m3
Long term – Systemic effects - Workers	Inhalation	10 ppm
Short term – Local effects - General population	Inhalation	60.7 mg/m3
Short term – Local effects - Workers	Inhalation	101,2 mg/m3
Short term – Local effects - Workers	Inhalation	101.2 mg/m³
Long term – Systemic effects - General population	Oral	5 mg/kg
Long term – Systemic effects - General population	Oral	6.25 mg/kg bw/day

2-methylpentane-2,4-diol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	22.5 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	63 mg/kg bw/day
Long term – Local effects - General population	Inhalation	25 mg/m³
Long term – Local	Inhalation	49 mg/m³

effects - Workers		
Long term – Systemic effects - General population	Inhalation	7.83 mg/m³
Long term – Systemic effects - Workers	Inhalation	44.43 mg/m³
Short term – Local effects - General population	Inhalation	49 mg/m³
Short term – Local effects - Workers	Inhalation	98 mg/m³

ammonium chloride

Duration:	**Route of exposure:**	**DNEL:**
Long term – Systemic effects - General population	Dermal	55.2 mg/kg /day
Long term – Systemic effects - General population	Dermal	55.2 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	128,9 mg/kg
Long term – Systemic effects - Workers	Dermal	128.9 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	9.4 mg/m3
Long term – Systemic effects - General population	Inhalation	9.4 mg/m³
Long term – Systemic effects - Workers	Inhalation	43,97mg/m3
Long term – Systemic effects - Workers	Inhalation	33.5 mg/m³
Long term – Systemic effects - General population	Oral	55.2 mg/m3
Long term – Systemic effects - General population	Oral	11.4 mg/kg bw/day
Short term – Systemic effects - General population	Oral	55.2 mg/kg bw/day

ethanediol

Duration:	**Route of exposure:**	**DNEL:**
Long term – Systemic	Dermal	53 mg/kg

effects - General population		
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/m³
Long term – Local effects - Workers	Inhalation	35 mg/m3
Long term – Local effects - Workers	Inhalation	35 mg/m³

propane-1,2-diol

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	10 mg/m3
Long term – Local effects - General population	Inhalation	10 mg/m³
Long term – Local effects - Workers	Inhalation	10 mg /m3
Long term – Local effects - Workers	Inhalation	10 mg/m³
Long term – Systemic effects - General population	Inhalation	50 mg/m3
Long term – Systemic effects - General population	Inhalation	50 mg/m³
Long term – Systemic effects - Workers	Inhalation	168 mg/m3
Long term – Systemic effects - Workers	Inhalation	168 mg/m³

▼PNEC

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		1.1 mg/L

Freshwater		1.1 mg/L
Freshwater sediment		4.4 mg/kg
Freshwater sediment		4.4 mg/kg
Intermittent release (freshwater)		11 mg/L
Marine water		0,11 mg/L
Marine water		110 µg/L
Marine water sediment		0,44 mg/ L
Marine water sediment		440 µg/kg
Predators		56 mg/kg
Soil		0.32 mg/kg
Soil		320 µg/kg

2-methylpentane-2,4-diol

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		0.429 mg/l
Freshwater		0,429 mg/L
Freshwater sediment		1.79 mg/ kg
Freshwater sediment		1.59 mg/kg
Marine water		0.0429 mg/l
Marine water		0,043 mg/L
Marine water sediment		0.179 mg/kg
Marine water sediment		0,159 mg/kg
Sewage treatment plant		20 mg/l
Sewage treatment plant		20 mg/L
Soil		0.11 mg/kg
Soil		0,066 mg/kgbw

ammonium chloride

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		0,25 mg/l
Freshwater		0,025 mg /l
Freshwater		250-1200 µg/L
Freshwater sediment		0,9 mg/kg

Intermittent release (freshwater)		430-1200 µg/L
Marine water		25-11200 µg/L
Marine water sediment		0,09 mg /kg
Sewage treatment plant		13.1 mg/l
Sewage treatment plant		16.2 mg/L
Soil		50.7 mg/kg
Soil		163-50700 µg/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
Freshwater sediment		572 mg/kg
Intermittent release		183 mg/l
Intermittent release		183 mg/L

(freshwater)		
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

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.

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. Always wash hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment

Generally

Use only UKCA marked protective equipment.

Respiratory Equipment

No specific requirements

Skin protection

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

Hand protection

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

Eye protection

Work situation	Type	Standards	
	Wear 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)
~ 1.005

Kinematic viscosity
< 15 mPa.s

Particle characteristics
Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)
~ -1

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

Completely soluble

n-octanol/water coefficient

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

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	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Species:	Mouse
Route of exposure:	Oral
Test:	LD50
Result:	2410.00 mg/kg
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	29.00 ppm
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	2764.00 mg/kg
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether

Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	5660.00 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/m³
Product/substance	ammonium chloride
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	1410.00 mg/kg
Product/substance	ammonium chloride
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	2000.00 mg/kg
Product/substance	2-methylpentane-2,4-diol
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	2000 mg/kgbw
Product/substance	2-methylpentane-2,4-diol
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	8560.00 mg/kg
Product/substance	2-methylpentane-2,4-diol

Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	> 8000 mg/kg
Product/substance	C6 fluorotelomer-based surfactant
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	0,16 mg/L
Product/substance	C6 fluorotelomer-based surfactant
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	>2000 mg/kg
Product/substance	C6 fluorotelomer-based surfactant
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	300 mg/kg
Product/substance	ethanediol
Species:	Rat
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

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory sensitisation

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

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

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

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

None known.

▼Endocrine disrupting properties

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

Other information

None known.

SECTION 12: Ecological information

12.1. ▼Toxicity

Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	1300.00 mg/L
Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	100.00 mg/L

Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Species:	Algae
Duration:	96 hours
Test:	EC50
Result:	100.00 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
Duration:	48 hours
Test:	LC50
Result:	34400.00 mg/L
Product/substance	ammonium chloride
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	43.00 mg/L
Product/substance	ammonium chloride
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	136.60 mg/L
Product/substance	2-methylpentane-2,4-diol
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	8510.00 mg/L

Product/substance	2-methylpentane-2,4-diol
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	5,41 mg/L
Product/substance	2-methylpentane-2,4-diol
Species:	Algae
Duration:	72 hours
Test:	IC50
Result:	429.00 mg/L
Product/substance	C6 fluorotelomer-based surfactant
Test method:	OECD 201
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	0,62 mg/L
Product/substance	C6 fluorotelomer-based surfactant
Test method:	OECD 202
Species:	Crustacean, Daphnia magna
Duration:	48 hours
Test:	EC50
Result:	7,41 mg/L
Product/substance	C6 fluorotelomer-based surfactant
Test method:	OECD 203
Species:	Fish, Danio rerio
Duration:	96 hours
Test:	LC50
Result:	>100 mg/L
Product/substance	C6 fluorotelomer-based surfactant
Species:	Crustacean, Daphnia magna
Duration:	48 hours
Test:	LC50
Result:	4 mg/L
Product/substance	C6 fluorotelomer-based surfactant
Species:	Crustacean, Daphnia magna

Duration:	48 hours
Test:	EC50
Result:	7,41 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

12.2. ▼Persistence and degradability

Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Biodegradable:	Yes
Test method:	OECD 301 C
Result:	80 %
Product/substance	propane-1,2-diol
Biodegradable:	Yes
Result:	95,8 %
Product/substance	2-methylpentane-2,4-diol
Biodegradable:	Yes
Test method:	OECD 301 F
Result:	81 %
Product/substance	ethanediol
Biodegradable:	Yes
Result:	90 %

12.3. ▼Bioaccumulative potential

Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Potential bioaccumulation:	No
LogPow:	No data available.
BCF:	No data available.
Product/substance	propane-1,2-diol
Potential bioaccumulation:	No
LogPow:	No data available.
BCF:	No data available.
Product/substance	ammonium chloride
Potential bioaccumulation:	No
LogPow:	No data available.
BCF:	No data available.
Product/substance	2-methylpentane-2,4-diol
Potential bioaccumulation:	No
LogPow:	No data available.
BCF:	No data available.
Product/substance	ethanediol
Potential bioaccumulation:	No
LogPow:	-1,36
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 considered to meet the criteria classifying them as PBT and/or vPvB.

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 not covered by regulations on dangerous waste.

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

▼

	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.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

UK-REACH, Annex XVII

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether is subject to restrictions, UK-REACH annex XVII (entry 55).

Additional information

Not applicable.

Sources

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

Yes

▼SECTION 16: Other information

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

H225, Highly flammable liquid and vapour.
H301, Toxic if swallowed.
H302, Harmful if swallowed.
H311, Toxic in contact with skin.

H315, Causes skin irritation.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H331, Toxic if inhaled.
H360FD, May damage fertility. May damage the unborn child.
H361d, Suspected of damaging the unborn child.
H370, Causes damage to organs.
H371, May cause damage to organs.
H373, May cause damage to organs through prolonged or repeated exposure.
H373, May cause damage to organs through prolonged or repeated exposure. (Oral)
H400, Very toxic to aquatic life.
H410, Very toxic 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
EWC = 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

Not applicable.
Dafo Fomtec Products comply with EU regulation-PFAS restriction: EU 2017/1000;EU 2020/784; EU 2021/1297 and POP regulation 2020/1021 supported by current analytical methods.
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▼The safety data sheet is validated by

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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.
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