SAFETY DATA SHEET

Fomtec ARC 3x3

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

1.1. Product identifier

Trade name

Fomtec ARC 3x3

Product no.

12-3304-01

Unique formula identifier (UFI)

UJHP-0FC6-KJ7F-WNGU

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
info@fomtec.com
www.fomtec.com

Contact person

CHR

E-mail

info@fomtec.com

Revision

03/09/2024

SDS Version

13.0

Date of previous version

05/07/2024 (13.0)

1.4. Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)
General public:
England - Dial 111 to reach NHS 111 (24 hour service)
Scotland - Dial 112 to reach NHS 24 (24 hour service)
Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)
See section 4 “First aid measures”.

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 Irrit. 2; H319, Causes serious eye irritation.
STOT RE 2; H373, May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)

Signal word

Warning

Hazard statement(s)

Causes serious eye irritation. (H319)
May cause damage to organs through prolonged or repeated exposure. (H373)
Harmful to aquatic life with long lasting effects. (H412)

Precautionary statement(s)

General

-

Prevention

Do not breathe vapour/mist. (P260)
Avoid release to the environment. (P273)
Wear eye protection/protective gloves/protective clothing. (P280)

Response

Get medical advice/attention if you feel unwell. (P314)
If eye irritation persists: Get medical advice/attention. (P337+P313)

Storage

-

Disposal

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

Hazardous substances

ethanediol
C6 fluorotelomer-based surfactant

Additional labelling

UFI: UJHP-0FC6-KJ7F-WNGU

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
ethanediol	CAS No.: 107-21-1 EC No.: 203-473-3 UK-REACH: 01-2119456816-28-XXXX Index No.: 603-027-00-1	15-24,5%	Acute Tox. 4, H302 STOT RE 2, H373 (Oral)	[1]
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	CAS No.: 112-34-5 EC No.: 203-961-6 UK-REACH: 01-2119475104-44-0006 Index No.: 603-096-00-8	5-10%	Eye Irrit. 2, H319	[1], [3]
Sodium decyl sulphate	CAS No.: 142-87-0 EC No.: 205-568-5 UK-REACH: UK-20-1299061068-0-0000	3-5%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 (SCL: 20.00 %) Aquatic Chronic 3, H412	

	Index No.:			
D-Glucopyranose, oligomers, decyl octyl glycosides	CAS No.: 68515-73-1 EC No.: 500-220-1 UK-REACH: 01-2119488530-36 Index No.:	1-3%	Eye Dam. 1, H318 (SCL: 10.00 %) Eye Irrit. 2, H319 (SCL: 3.00 %)	[19]
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts	CAS No.: 1469983-49-0 EC No.: 939-455-3 UK-REACH: UK-01-5723494305-8-xxxx Index No.:	1-3%	Eye Dam. 1, H318 Aquatic Chronic 2, H411	
Blend of Fluorinated substances C6(PFAS)	CAS No.: 00-00-0 EC No.: UK-REACH: Index No.:	<1%		
2-methylpentane-2,4-diol	CAS No.: 107-41-5 EC No.: 203-489-0 UK-REACH: Index No.: 603-053-00-3	<1%	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.:	<0,3%	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)	

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.
[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

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

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. 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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get 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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Sulphur oxides
Nitrogen oxides (NO_x)
Carbon oxides (CO / CO2)
Some metal oxides
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.
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 conditions

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

ethanediol
Long term exposure limit (8 hours) (ppm): 20(vapour)
Long term exposure limit (8 hours) (mg/m^3): 10(particulate)/52(vapour)
Short term exposure limit (15 minutes) (ppm): 40 (vapour)
Short term exposure limit (15 minutes) (mg/m^3): 104 (vapour)
Annotations:
Sk = Can be absorbed through the skin and lead to systemic toxicity.

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Long term exposure limit (8 hours) (ppm): 10
Long term exposure limit (8 hours) (mg/m^3): 67,5
Short term exposure limit (15 minutes) (ppm): 15
Short term exposure limit (15 minutes) (mg/m^3): 101,2

2-methylpentane-2,4-diol
Long term exposure limit (8 hours) (ppm): 25
Long term exposure limit (8 hours) (mg/m^3): 123
Short term exposure limit (15 minutes) (ppm): 25
Short term exposure limit (15 minutes) (mg/m^3): 123

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
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-(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 effects - Workers	Inhalation	49 mg/m³
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
Long term – Systemic effects - General population	Oral	2.25 mg/kg bw/day

D-Glucopyranose, oligomers, decyl octyl glycosides

Duration:	**Route of exposure:**	**DNEL:**
Long term – Systemic effects - General population	Dermal	357000 mg/kg
Long term – Systemic effects - General population	Dermal	357000 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	595000 mg/kg
Long term – Systemic effects - Workers	Dermal	595000 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	124 mg/m3
Long term – Systemic effects - General population	Inhalation	124 mg/m³
Long term – Systemic effects - Workers	Inhalation	420 mg / m3
Long term – Systemic effects - Workers	Inhalation	420 mg/m³
Long term – Systemic effects - General population	Oral	35.7 mg/kg
Long term – Systemic effects - General population	Oral	35.7 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/m³
Long term – Local effects - Workers	Inhalation	35 mg/m3
Long term – Local effects - Workers	Inhalation	35 mg/m³

Sodium decyl sulphate

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 bw/day
Short term – Systemic effects - Workers	Dermal	4060 mg/kg
Long term – Systemic effects - General population	Inhalation	85 mg/m3
Long term – Systemic effects - General population	Inhalation	85 mg/m³
Long term – Systemic effects - Workers	Inhalation	285 mg/m³
Short term – Systemic effects - Workers	Inhalation	285 mg/m3
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-(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		429 µg/L
Freshwater sediment		1.79 mg/ kg
Freshwater sediment		1.59 mg/kg

Intermittent release (freshwater)	4.29 mg/L
Marine water	0.0429 mg/l
Marine water	0,043 mg/L
Marine water	42.9 µg/L
Marine water sediment	0.179 mg/kg
Marine water sediment	0,159 mg/kg
Marine water sediment	159 µg/kg
Sewage treatment plant	20 mg/l
Sewage treatment plant	20 mg/L
Soil	0.11 mg/kg
Soil	0,066 mg/kgbw
Soil	66 µg/kg

D-Glucopyranose, oligomers, decyl octyl glycosides

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		0,1 mg/l
Freshwater		176 µg/L
Freshwater sediment		0.487 mg/kg
Freshwater sediment		1.516 mg/kg
Intermittent release (freshwater)		270 µg/L
Marine water		0,01mg/l
Marine water		17.6 µg/L
Marine water sediment		0.048 mg/kg
Marine water sediment		152 µg/kg
Predators		111.11 mg/kg
Sewage treatment plant		560 mg/L
Soil		654 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

Sodium decyl sulphate

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		0,095 mg/l

Freshwater	95 µg/L
Freshwater sediment	1,5 mg/kg
Freshwater sediment	1.5 mg/kg
Intermittent release	0,086mg7l
Intermittent release (freshwater)	86 µg/L
Marine water	0,0095 mg/l
Marine water	9.5 µg/L
Marine water sediment	0,15 mg/kg
Marine water sediment	150 µg/kg
Sewage treatment plant	1.35 mg/L
Soil	0,2445 mg/kg
Soil	244.5 µg/kg

8.2. ▼Exposure controls

Apply general control to prevent unnecessary exposure

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

Occupational exposure limits have not been defined for the substances in this product.

▼Appropriate technical measures

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

Work situation	Type	Class	Colour	Standards
In case of inadequate ventilation	A	Class 1 (low capacity)	Brown	EN14387

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)
1.04

▼Kinematic viscosity
No relevant or available data due to the nature of the product.

Particle characteristics
Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)
- 15

Softening point/range (°C)
Does not apply to liquids.

▼Boiling point (°C)
No relevant or available data due to the nature of the product.

▼Vapour pressure
No relevant or available data due to the nature of the product.

▼Relative vapour density
No relevant or available data due to the nature of the product.

▼Decomposition temperature (°C)
No relevant or available data due to the nature of the product.

Data on fire and explosion hazards

▼Flash point (°C)
No relevant or available data due to the nature of the product.

▼Flammability (°C)
No relevant or available data due to the nature of the product.

▼Auto-ignition temperature (°C)
No relevant or available data due to the nature of the product.

▼Lower and upper explosion limit (% v/v)
No relevant or available data due to the nature of the product.

Solubility

Solubility in water
Completely soluble

▼n-octanol/water coefficient (LogKow)
No relevant or available data due to the nature of the product.

▼Solubility in fat (g/L)
No relevant or available data due to the nature of the product.

9.2. Other information

▼Oxidizing properties
No relevant or available data 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	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

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	Sodium decyl sulphate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	1200.00 mg/kg
Product/substance	Sodium decyl sulphate
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	2000.00 mg/kg
Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	2000.00 mg/kg
Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	2000.00 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 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-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

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
Result:	No adverse effect observed (Not irritating)

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 irritation.

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

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

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

11.2. Information on other hazards

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Endocrine disrupting properties

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

Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

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	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	Sodium decyl sulphate
Species:	Fish
Duration:	48 hours
Test:	LC50
Result:	13.00 mg/L

Product/substance	Sodium decyl sulphate
Species:	Algae
Duration:	72 hours
Test:	EC50

Result:	8.64 mg/L

Product/substance	Sodium decyl sulphate
Species:	Daphnia
Duration:	24 hours
Test:	EC50
Result:	>100 mg/L

Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	20.71 mg/L

Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	21.00 mg/L

Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	37.00 mg/L

Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	100.00 mg/L

Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
Species:	Crustacean
Duration:	96 hours
Test:	EC50
Result:	151 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 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
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-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

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Product/substance	ethanediol
Result:	90 %
Conclusion:	Readily biodegradable

Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Result:	80 %
Conclusion:	Readily biodegradable
Test:	OECD 301 C

Product/substance	Sodium decyl sulphate
Result:	80 %
Conclusion:	Readily biodegradable
Test:	OECD 301 D

Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
Result:	100 %
Conclusion:	Readily biodegradable
Test:	OECD 301 E

Product/substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
Result:	57%
Conclusion:	Readily biodegradable

Product/substance	2-methylpentane-2,4-diol
Result:	81 %
Conclusion:	Readily biodegradable
Test:	OECD 301 F

12.3. Bioaccumulative potential

Product/substance	ethanediol
LogKow:	-1,36
Conclusion:	No potential for bioaccumulation

Product/substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Conclusion:	No potential for bioaccumulation

Product/substance	Sodium decyl sulphate
LogKow:	1,72
Conclusion:	-

Product/substance	D-Glucopyranose, oligomers, decyl octyl glycosides
LogKow:	1.77
Conclusion:	-

Product/substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
Conclusion:	No potential for bioaccumulation

Product/substance	2-methylpentane-2,4-diol
Conclusion:	No potential for bioaccumulation

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 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
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

	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.
People under the age of 18 shall not be exposed to this product.
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.

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

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

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

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
GWP = Global warming potential
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.
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.

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 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