

## SAFETY DATA SHEET

# Fomtec Enviro 3x3 NEO

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

### 1.1. Product identifier

▼ Trade name  
Fomtec Enviro 3x3 NEO

Product no.  
12-3357-01

▼ Unique formula identifier (UFI)  
FW4S-9SJ8-86F7-VJRD

### 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 and industrial use.

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  
13/01/2026

SDS Version  
2.0

Date of previous version  
05/08/2025 (1.0)

### 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 111 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

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

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.

### 2.2. Label elements

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s)

Causes serious eye irritation. (H319)

Precautionary statement(s)

#### ▼ General

Not applicable.

#### Prevention

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)

If eye irritation persists: Get medical advice/attention. (P337+P313)

#### ▼ Storage

Not applicable.

#### ▼ Disposal

Not applicable.

Hazardous substances

Does not contain any substances required to report

#### ▼ Additional labelling

UFI: FW4S-9SJ8-86F7-VJRD

### 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) 2023/707.

## 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	5-10%	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]

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

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
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%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 (SCL: 10.00 %) Eye Irrit. 2, H319 (SCL: 20.00 %) Aquatic Chronic 3, H412

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 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

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

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

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<sup>3</sup>): 10(particulate)/52(vapour)

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

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 104 (vapour)

Annotations:

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

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

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

Long term exposure limit (8 hours) (ppm): 10  
 Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 67,5  
 Short term exposure limit (15 minutes) (ppm): 15  
 Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 101,2

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/kg bw/day
Long term – Systemic effects - General population	Dermal	3 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	6000 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	6 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	5200 µg/m <sup>3</sup>
Long term – Systemic effects - General population	Inhalation	5.2 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	21 200 µg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	21.2 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	3000 µg/kg bw/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/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	68 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	10 ppm
Short term – Local effects - General population	Inhalation	60.7 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	101,2 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	101.2 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	5 mg/kg
Long term – Systemic effects - General population	Oral	6.25 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/m <sup>3</sup>
Long term – Local effects - General population	Inhalation	7 mg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	35 mg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	35 mg/m <sup>3</sup>

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

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

<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
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 <sup>3</sup>
Long term – Systemic effects - General population	Inhalation	85 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	285 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	285 mg/m <sup>3</sup>
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

<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
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

<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
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

ethanediol

<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
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

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

<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
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.

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

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

Recommended	Type/Category	Standards	
Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.	-	-	

#### 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

#### pH in solution

(100%)

#### Density (g/cm<sup>3</sup>)

~1,07

#### Kinematic viscosity

No data available.

#### Particle characteristics

Does not apply to liquids.

#### Phase changes

##### ▼ Melting point/Freezing point (°C)

-14

##### Softening point/range (°C)

Does not apply to liquids.

##### Boiling point (°C)

No data available.

##### Vapour pressure

No data available.

Relative vapour density

No data available.

Decomposition temperature (°C)

No data available.

Data on fire and explosion hazards

Flash point (°C)

No data available.

Flammability (°C)

No data available.

Auto-ignition temperature (°C)

No data available.

Lower and upper explosion limit (% v/v)

No data available.

Solubility

Solubility in water

Completely soluble

n-octanol/water coefficient (LogKow)

No data available.

Solubility in fat (g/L)

No data available.

9.2. Other information

Oxidizing properties

No data available.

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

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 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

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

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 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

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

#### ▼ 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)

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

#### 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)

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

#### ▼ Skin sensitisation

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

#### ▼ Germ cell mutagenicity

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

#### ▼ Carcinogenicity

Based on available data for the mixture, 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

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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

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

#### ▼ STOT-single exposure

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

#### ▼ STOT-repeated exposure

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

#### ▼ Aspiration hazard

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

#### ▼ Symptoms related to the physical, chemical and toxicological characteristics

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.

#### 11.2. Information on other hazards

##### 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	Fomtec Enviro 3x3 NEO
Test method:	OECD 236
Species:	Fish, Danio rerio
Compartment:	Freshwater
Duration:	96 hours
Test:	LC50
Result:	72 mg/L

Product/substance	Fomtec Enviro 3x3 NEO
Test method:	OECD 236
Species:	Fish, Danio rerio
Compartment:	Freshwater
Duration:	96 hours
Test:	NOEC
Result:	54 mg/L

Product/substance	Fomtec Enviro 3x3 NEO
Test method:	OECD 201
Species:	Algae, Selenastrum capricornutum
Compartment:	Freshwater
Test:	IC50
Result:	<2000 mg/L

Product/substance	Fomtec Enviro 3x3 NEO
Test method:	OECD 202
Species:	Daphnia, Daphnia magna
Compartment:	Freshwater
Duration:	48 hours
Test:	EC50
Result:	500 mg/L

Product/substance	Fomtec Enviro 3x3 NEO
Test method:	OECD 202
Species:	Daphnia, Daphnia magna
Compartment:	Freshwater
Duration:	48 hours
Test:	NOEC
Result:	100 mg/L

Product/substance	ethanediol
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	72860.00 mg/L

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

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 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

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

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 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  
 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

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

## 12.2. ▼ Persistence and degradability

Product/substance Fomtec Enviro 3x3 NEO  
 Compartment: Freshwater  
 Duration: 28 days  
 Result: 73 %  
 Conclusion: Readily biodegradable  
 Test: OECD 301 F

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

Conclusion: Readily biodegradable

### 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 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 Sulfuric acid, mono-C12-14-alkyl esters, compds. with triethanolamine  
 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 not covered by regulations on dangerous waste.

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

Not applicable.

### 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/ADN/RID	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

▼ Additional information

Not dangerous goods according to ADR/ADN/RID, 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

Industrial use only.

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.

##### Control of Major Accident Hazards (COMAH) - 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 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.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

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

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 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