

# Material Safety Data Sheet

## FOMTEC Enviro Class A

**Issue Date** 17/04/2018

**Status** ISSUED BY: Fire Protection Technologies

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product Identifier

<b>Product name:</b>	Fomtec Enviro Class A
<b>Article no:</b>	11-1050-XX
<b>Importer / Supplier:</b>	Fire Protection Technologies
<b>Address</b>	Unit 1/251 Ferntree Gully Road Mt Waverley, Victoria, 3149 Australia.
<b>Telephone Number</b>	1300 742 296
<b>Emergency Telephone No.</b>	24 hours 1300 742 296
<b>Emergency Services</b>	Dial 000
<b>SDS Preparer</b>	Fire Protection Technologies
<b>Manufacturer:</b>	Dafo Fomtec AB Garnisonsg. 47 A, Helsingborg Box 683 S-13526 Tyreso Sweden +46 850640500 <a href="mailto:info@fomtec.com">info@fomtec.com</a> <a href="http://www.fomtec.com">www.fomtec.com</a>

### 2. HAZARD IDENTIFICATION

#### 2.1 Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]

Eye Dam. 1; H318; Calculation method

Substance / mixture hazardous properties

Not regarded as a health or environmental hazard under current legislation.

#### 2.2 Label elements

**Hazard Pictograms (CLP)**





Composition on the label	2-(2-Butoxyethoxy) ethanol 10-15%, 2-Ethylhexyl sulfosuccinate sodium 1-2,9%, Alcohols, C12-14, ethoxylated, sulfates, sodium salts 5-9%
Signal word	Danger
Hazard statements	H318 Causes serious eye damage
Precautionary statements	P280 Wear protective gloves / protective clothing / eye protection / face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON Centre or doctor/physician.

### 2.3 Other hazards

PBT / vPvB	The product does not meet the criteria for PBT (persistent / bioaccumulative / toxic) or vPvB (very Persistent / very bioaccumulative).
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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Mixtures

Substance	Identification	classification	Contents
2-(2-Butoxyethoxy) ethanol	CAS No.: 112-34-5 EC No.: 203-961-6 Index No.: 603-096-00-8 REACH Reg. No.: 01-2119475104-44	Eye Irrit. 2; H319	10 -15 %
2-Ethylhexyl sulfosuccinate sodium	CAS No.: 577-11-7 EC No.: 209- 406-4 REACH Reg. No.: 01- 2119491296-29	Eye Dam. 1; H318 Skin Irrit. 2; H315	1 -2,9 %
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS No.: 68891-38-3 EC No.: 500-234-	Skin Irrit. 2; H315; Eye Dam. 1; H318; Aquatic Chronic 3; H412	5 -9 %

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

General	Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.
Inhalation	Fresh air and rest. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing and launder thoroughly before re-use. Wash skin thoroughly with soap and water for several minutes. Get medical attention if any discomfort continues.
Eye contact	Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention immediately. Continue to rinse. Immediately rinse with plenty of lukewarm water for at least 15 minutes.
Ingestion	Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions.



Recommended personal protective equipment for first aid responders      No recommendation given

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

General symptoms and effects      Ingestion of large quantities may cause nausea, vomiting, dizziness, confusion, lost of consciousness. After extensive contact, may cause irritation to skin. May cause serious damage to eyes.

#### 4.3 Indication of any immediate medical attention and special treatment

Medical treatment      Treat Symptomatically  
Medical monitoring for delayed effects      No recommendation given  
Separate first aid equipment      No recommendation given

### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media      This product is not flammable

#### 5.2 Special hazards arising from the substance or mixture

Fire and explosion hazards      None

#### 5.3 Advice for firefighters

Firefighting procedures      Follow the general fire precautions indicated by the workplace

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 personal precautions, protective equipment and emergency procedures

Personal protection measures      Avoid contact with skin and eyes. Do not breathe vapour. For personal protection, see section 8.

#### 6.2 Environmental precautions

Environmental precautionary measures      Prevent discharge of larger quantity to drain. Avoid discharge to the aquatic environment.

#### 6.3 Methods and material for containment and cleaning up

Clean up      Absorb in vermiculite, dry sand or earth and place into containers. Collect spills to suitable waste containers. Further handling of waste - see section 13.

#### 6.4 Reference to other sections

Other instructions      See sections 8 and 13 for information concerning protective equipment and waste treatment methods.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Handling

Avoid contact with skin and eyes. Avoid inhalation of vapours. Wash hands before breaks and before smoking, eating or drinking. Wash hands and contaminated areas with water and soap after finished work. Container must be kept tightly closed.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage

Store at moderate temperatures in dry, well ventilated area. Keep containers tightly closed. Protect against direct sunlight.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### 8.1 Control parameters

Substance	Identification	Value	TWA Year
2-(2-Butoxyethoxy) ethanol	CAS No.: 112-34-5		
<b>DNEL / PNEC</b>			
Substance	2-(2-Butoxyethoxy) ethanol		
PNEC	Reference: Predicted No Effect Concentration 1 mg/L aquatic organisms 71 mg/L microorganisms 0,2 mg/kg terrestrial environment 50 mg/kg predators		

### 8.2 Exposure controls

Safety signs



**Precautionary measures to prevent exposure**

Appropriate engineering controls

An eye was bottle must be available at the work site.

**Eye / face protection**

Suitable eye protection

Wear approved chemical safety goggles where eye exposure is reasonably probable.

**Hand protection**

Skin-/hand protection, long term contact

In cases of prolonged, repeated or extensive exposure, wear protective gloves.

**Skin protection**

Suitable protective clothing	Use protective clothes in order to avoid skin contact.
<b>Respirator protection</b>	
Respirator protection	In case of inadequate ventilation and work of brief duration, use suitable respirator equipment.
<b>Hygiene / environmental</b>	
Specific hygiene measures	No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical state	Clear, yellowish liquid
Colour	Yellowish
Odour	Slight odour
Odour limit	Comments: Not entered
pH	Status: In delivery state Value: 6,5 – 8,5
Melting point / melting range	Comments: Not entered
Freezing point	Value: -5 °C
Boiling point / boiling range	Comments: Not entered
Flash point	Comments: Not relevant.
Evaporation rate	Comments: Not entered.
Flammability (solid, gas)	Not relevant.
Vapour pressure	Comments: Not entered
Vapour density	Comments: Not entered
Relative density	Value: ~ 1,020 g/ml
Solubility	Comments: Soluble in water.
Partition coefficient: n-octanol/water	Comments: Not entered.
Spontaneous combustibility	
Decomposition temperature	Comments: Not entered.
Viscosity	Value: ≤ 30 mPas Method: Brookfield DV
Explosive properties	
Oxidising properties	Does not meet the criteria for oxidising

### 9.2 Other information

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Reactivity Stable product under normal conditions of handling and storage.

### 10.2 Chemical stability

Stability Stable product under normal conditions of handling and storage.



### 10.3 Possibility of hazardous reactions

Possibility of hazardous reactions                      Stable product under normal conditions of handling and storage.

### 10.4 Conditions to avoid

Conditions to avoid    Not known under normal conditions of handling and storage.

### 10.5 Incompatible materials

Materials to avoid    Alkali earth metals.

### 10.6 Hazardous decomposition products

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Substance    2-(2-Butoxyethoxy) ethanol  
Acute toxicity    **Type of toxicity:** Acute  
**Effect Tested:** LD50  
**Route of exposure:** Oral  
**Value:** = 5660 mg/kg bw  
**Animal test species:** Rat  
**Comments:** Non-acute toxic

**Type of toxicity:** Acute  
**Effect Tested:** LD50  
**Route of exposure:** Dermal  
**Value:** > 2000 mg/kg  
**Animal test species:** Rabbit  
**Comments:** Non-acute toxic

Substance    2-Ethylhexyl sulfosuccinate sodium  
Acute toxicity    **Type of toxicity:** Acute  
**Effect Tested:** LD50  
**Route of exposure:** Oral  
**Value:** = 1900 mg/kg bw  
**Animal test species:** Rat  
**Comments:** Hazardous if ingested

**Type of toxicity:** Acute  
**Effect Tested:** LD50  
**Route of exposure:** Dermal  
**Value:** = 10000 mg/kg  
**Animal test species:** Rabbit  
**Comments:** Non-acute toxic

Substance    Alcohols, C12-14, ethoxylated, sulfates, sodium salts  
Acute toxicity    **Type of toxicity:** Acute  
**Effect Tested:** LD50  
**Route of exposure:** Oral  
**Value:** > 2000 mg/kg bw  
**Test reference:** OECD 404

### Other Information regarding health hazards

Skin contact	In case of prolonged contact with skin, may cause irritation.
Eye contact	Cause serious eye irritation.
Ingestion	In case of ingestion may cause nausea, vomiting, dizziness, confusion, loss of consciousness.
Sensitisation	No known chronic or acute health risks
Mutagenicity	No known chronic or acute health risks.
Carcinogenicity, other information	No known chronic or acute health risks.
Mutagenicity	No known chronic or acute health risks.
Reproductive toxicity	No known chronic or acute health risks.

### Symptoms of exposure

In case of ingestion	When consuming large quantities, the product can cause nausea, vomiting, dizziness, confusion, loss of consciousness.
In case of skin contact	After extensive contact, may cause irritation to skin
In case of eye contact	Irritation of eyes and mucous membrane.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Acute aquatic, fish	<b>Value:</b> ~ 35 mg/l <b>Test duration:</b> 96 h <b>Species:</b> Rainbow Trout
Substance	2-(2-Butoxyethoxy) ethanol
Acute aquatic, fish	<b>Toxicity Type:</b> Acute <b>Value:</b> ~ 1300 mg/l <b>Test duration:</b> = 96 hour(s) <b>Species:</b> Lepomis macrochirus <b>Comments:</b> Not hazardous for environment
Substance	2-Ethylhexyl sulfosuccinate sodium
Acute aquatic, fish	<b>Toxicity type:</b> Acute <b>Value:</b> = 28 mg/l <b>Effect dose concentration:</b> LC50 <b>Exposure time:</b> = 96 hour(s) <b>Species:</b> Oncorhynchus mykiss <b>Comments:</b> Risk for hazardous effect on the environment
Substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Acute aquatic, fish	<b>Value:</b> 10 - 100 mg/l <b>Method:</b> ISO 7346/2
Acute aquatic, Daphnia	<b>Value:</b> ~ 35 mg/l <b>Test duration:</b> 24 h <b>Species:</b> Daphnia Magna
Substance	2-(2-Butoxyethoxy) ethanol

Acute aquatic, Daphnia

**Toxicity type:** Acute

**Value:** > 100 mg/l

**Effect dose concentration:** EC50

**Exposure time:** 48 hour(s)

**Species:** D. magna

**Comments:** Not hazardous for environment

Ecotoxicity

The product is not environmentally hazardous to aquatic life.

Aquatic, comments

Value: 10 - 100 mg/l Method: ISO 7346/2

## 12.2 Persistence and degradability

Substance

2-(2-Butoxyethoxy) ethanol

Biodegradability

**Value:** = 89 %

**Method:** degradation in 28 days OECD 301C **Comments:** Readily biodegradable.

Substance

2-Ethylhexyl sulfosuccinate sodium

Biodegradability

**Value:** = 66,7 %

**Method:** degradation in 28 days OECD 301D **Comments:** Not readily biodegradable.

Substance

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Biodegradability

**Value:** = 90 %

**Method:** degradation in 28 days OECD 301D **Comments:** Readily biodegradable.

Persistence and degradability, comments

The product is expected to be biodegradable.

## 12.3 bio accumulative potential

Bioaccumulative potential

Bioaccumulation: Is not expected to be bioaccumulable.

Substance

2-(2-Butoxyethoxy) ethanol

Bioconcentration factor (BCF)

Value: = 2,9

Substance

Comments: No bioaccumulation expected.

Bioconcentration factor (BCF)

Value: = 56,23

Comments: No bioaccumulation expected.

## 12.4 Mobility in soil

Mobility

The product contains substances, which are water soluble and may spread in water systems.

## 12.5 Results of PBT and vPvB assessment

PBT assessment results

Not Classified as PBT/vPvB by current EU criteria.

## 12.6 Other adverse effects

# 13. DISPOSAL CONSIDERATIONS

## 13.1 Waste treatment methods

Specify the appropriate methods of disposal

Dispose of waste and residues in accordance with local authority requirements.

EWC waste code

EWC waste code: 160305 organic wastes containing dangerous substances

National regulations

Classified as hazardous waste: Yes  
SFS 2011:927



## 14. TRANSPORT INFORMATION

Dangerous goods

No

### 14.1 UN number

Comments

Not applicable. No information required.

### 14.2 UN proper shipping name

Comments

Not applicable. No information required.

### 14.3 Transport hazard class(es)

Comments

Not applicable. No information required

### 14.4 Packing group

Comments

Not applicable. No information required.

### 14.5 Environmental hazards

Comments

Not applicable. No information required.

### 14.6 Special precautions for user

### 14.7 Transport in bulk according to Annex II or MARPOL 73/78 and the IBC Code Additional Information

Additional information

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

## 15. REGULATORY INFORMATION

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

EEC-directive

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC. Directive 2008/68/EC of the European Parliament and of the Council of 24 September 2008 on the inland transport of dangerous goods. Commission Directive 2012/45/EU adapting for the second time the Annexes to Directive 2008/68/EC of the European Parliament and of the Council on the inland transport of dangerous goods to scientific and technical progress.

Legislation and regulation

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006



of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

## 15.2 Chemical safety assessment

Chemical safety assessment performed Yes

## 16. OTHER INFORMATION

List of relevant H-phrases (Section 2 and 3)

- H315 Causes skin irritation.
- H318 Causes Serious eye damage.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects