

Safety Data Sheet

FOMTEC AFFF 3% S

Revision Date 16/04/2021

Status ISSUED BY: Fire Protection Technologies

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

1.1 Product Identifier

Product name: Fomtec AFFF 3% S

Product no: 10-3021-01

Importer / Supplier: Fire Protection Technologies
Address Unit 1/251 Ferntree Gully Road
Mt Waverley, Victoria, 3149 Australia.

Telephone Number 1300 742 296
Emergency Telephone No. 24 hours 1300 742 296
Emergency Services Dial 000

SDS Preparer Fire Protection Technologies

Manufacturer: Dafo Fomtec AB
Box 683
SE-13526 Tyreso
Sweden
+46 8 506 405 00
www.fomtec.com

2. HAZARD IDENTIFICATION

2.1 Classification of substance or mixture

Eye Irrit. 2; H319, Causes serious eye irritation

2.2 Label elements

Hazard Pictogram(s)



Signal word

Warning

Hazard statements	Causes serious eye irritation
Safety statement(s)	<p>Prevention: P280, Wear eye protection / protective gloves / protective clothing. P264, Wash hands/exposed areas thoroughly after handling</p> <p>Response: P337+P313, If eye irritation persists: Get medical advice/ attention P305+P351+P338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>

2.3 Other hazards

Additional Labelling / VOC	Not applicable
Additional warnings	This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

Product/Ingredient name	Identifier Number	% w/w	CLP	Note
2-(2- butoxyethoxy)ethanol; diethylene glycol monobutyl ether	CAS No.: 112-34-5 EC No.: 203-961-6 REACH: 01- 2119475104-44 Index No.: 603-096-00-8	5-10%	Eye Irrit. 2, H319	Annex XVII, EU
Sodium decyl sulphate	CAS No.: 142-87-0 EC No.: 205-568-5 REACH: 01-2119970328-30-0004	1-3%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 (SCL: 20.00%) Aquatic Chronic 3, H412	
1-Propanaminium, N-(3-aminopropyl)-2- hydroxy-N,Ndimethyl- 3-sulfo, N-(C8-18(even numbered) acyl) derivs., hydroxides	CAS No.: 68139-30-0 EC No.: 939-455-3 REACH No.: 01-2119970722-34-0000	<1%	Eye Dam. 1, H318 Aquatic Chronic 3, H412	

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 persons 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	Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.
Ingestion	Provide plenty of water for the person to drink and stay with him/her. 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 victim lean forward with head down to avoid inhalation of, or choking on, vomited material.

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

If eye irritation persists	Get medical advice/attention
Information to medics	Bring this safety data sheet or the label from the product

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

This 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 in order to obtain further advice.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

No specific requirements

6.2 Environmental precautions

Avoid discharge to lakes, streams, sewers etc

6.3 Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal according to local regulations. To the extent possible, cleaning is performed with normal cleaning agents. Avoid use of solvents

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container.
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage temperature	Dry, cool and well ventilated (<55°C)
Incompatible materials	Strong acids, strong bases, strong oxidizing agents and strong reducing agents.

8. EXPOSURE CONTROL/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/m ³): 67,5
	Short term exposure limit (15 minutes) (ppm): 15
	Short term exposure limit (15 minutes) (mg/m ³): 101,2

DNEL

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	DNEL: 68 mg/m ³
	Route of exposure: Inhalation
	Duration: Long term – Systemic effects – Workers
	DNEL: 101,2 mg/m ³
	Route of exposure: Inhalation
	Duration: Short term – Local effects – Workers
	DNEL: 83 mg/kg
	Route of exposure: Dermal
	Duration: Long term – Systemic effects – Workers
	DNEL: 10 ppm
	Route of exposure: Inhalation
	Duration: Long term – Systemic effects – Workers
	DNEL: 60.7 mg/m ³
	Route of exposure: Inhalation
	Duration: Short term – Local effects – General population
	DNEL: 50 mg/kg
	Route of exposure: Dermal
	Duration: Long term – Systemic effects – General population
	DNEL: 5 mg/kg
	Route of exposure: Oral
	Duration: Long term – Systemic effects – General population

Sodium decyl sulphate

DNEL: 4060 mg/kg
Route of exposure: Dermal
Duration: Short term – Systemic effects – Workers

DNEL: 285 mg/m³
Route of exposure: Inhalation
Duration: Short term – Systemic effects – Workers

DNEL: 2440 mg/kg
Route of exposure: Dermal
Duration: Long term – Systemic effects – General population

DNEL: 85 mg/m³
Route of exposure: Inhalation
Duration: Long term – Systemic effects – General population

DNEL: 24 mg/kg
Route of exposure: Oral
Duration: Long term – Systemic effects – General population

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

DNEL: 0,33 mg/kg
Route of exposure: Dermal
Duration: Long term – Systemic effects – Workers

DNEL: 1,18 mg/m³
Route of exposure: Inhalation
Duration: Long term – Systemic effects – Workers

DNEL: 0.17 mg/kg
Route of exposure: Dermal
Duration: Long term – Systemic effects – General population

DNEL: 0.29 mg/m³
Route of exposure: Inhalation
Duration: Long term – Systemic effects – General population

DNEL: 0.17 mg/kg
Route of exposure: Oral
Duration: Long term – Systemic effects – General population

PNEC

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

PNEC: 1.1 mg/L
Route of exposure: Freshwater
Duration: No data available

PNEC: 0,11 mg/L
Route of exposure: Marine water
Duration: No data available

PNEC: 0,44 mg/L
Route of exposure: Marine water sediment
Duration: No data available

PNEC: 4.4 mg/kg
Route of exposure: Freshwater sediment
Duration: No data available

PNEC: 0.32 mg/kg
Route of exposure: Soil

Sodium decyl sulphate

Duration: No data available

PNEC: 0,095 mg/l

Route of exposure: Freshwater

Duration: No data available

PNEC: 0,0095 mg/l

Route of exposure: Marine water

Duration: No data available

PNEC: 1,5 mg/kg

Route of exposure: Freshwater sediment

Duration: No data available

PNEC: 0,15 mg/kg

Route of exposure: Marine water sediment

Duration: No data available

PNEC: 0,2445 mg/kg

Route of exposure: Soil

Duration: No data available

PNEC: 0,086 mg/l

Route of exposure: Intermittent release

Duration: No data available

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

PNEC: 0,021 mg/l

Route of exposure: Freshwater

Duration: Continuous

PNEC: 0,00152 mg/L

Route of exposure: Marine water

Duration: No data available

PNEC: 0,697 mg/kg

Route of exposure: Marine water sediment

Duration: No data available

PNEC: 0,0414 mg/kg

Route of exposure: Soil

Duration: No data available

PNEC: 6.97 mg/kg

Route of exposure: Freshwater sediment

Duration: No data available

PNEC: 100 mg/l

Route of exposure: Sewage treatment plant

Duration: No data available

8.2 Exposure controls

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.



Appropriate technical measures	Airborne gas and dust concentrations 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 emergency eyewash and showers are clearly marked.
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.
Personal Protective Equipment	Use only CE market protective equipment
Skin protection	Dedicated work clothing should be worn
Hand protection	Vinyl / PVC Gloves. Thickness 0.6mm
Eye protection	Wear Safety Glasses with side shields. Standards EN166

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Pale yellow
Odour	Characteristic
pH	6.5-8.5
Density (g/cm ³)	~1.02
Kinematic Viscosity	>20 mPa.s
Melting point	-3°C
Solubility in Water	Soluble

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

The product is stable under the conditions, noted in section "Handling and Storage"

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

None



10.5 Incompatible materials

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

10.6 Hazardous decomposition products

This product is not degraded when used as specified in section 1

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product/Ingredient Name

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

Type of toxicity: Acute
Test: LD50
Route of exposure: Oral
Result: 2410.00 mg/kg
Species: Mouse

Type of toxicity: Acute
Test: LC50
Route of exposure: Inhalation
Result: 29.00 ppm
Species: Rat

Type of toxicity: Acute
Test: LD50
Route of exposure: Dermal
Result: 2764.00 mg/kg
Species: Rabbit

Type of toxicity: Acute
Test: LD50
Route of exposure: Oral
Result: 5660.00 mg/kg
Species: Rat

Sodium decyl sulphate

Type of toxicity: Acute
Test: LD50
Route of exposure: Oral
Result: 1200.00 mg/kg
Species: Rat

Type of toxicity: Acute
Test: LD50
Route of exposure: Dermal
Result: 2000.00 mg/kg
Species: Rat

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

Type of toxicity: Acute
Test: LD50
Route of exposure: Oral
Result: 2950.00 mg/kg
Species: Rat

Type of toxicity: Acute
Test: LD50
Route of exposure: Dermal
Result: 2000.00 mg/kg
Species: Rat

Serious eye damage / irritation

Causes serious eye irritation

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.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

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

Test: LC50
Duration: 96 hours
Result: 1300.00 mg/L
Species: Fish

Test: EC50
Duration: 48 hours
Result: 100.00 mg/L
Species: Daphnia

Test: EC50
Duration: 96 hours
Result: 100.00 mg/L
Species: Algae

Sodium decyl sulphate

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

Test: EC50
Duration: 72 hours
Result: 8.64 mg/L
Species: Algae

Test: EC50
Duration: 24 hours
Result: >100 mg/L
Species: Daphnia

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

Test: LC50
Duration: 96 hours
Result: 0.23 mg/L
Species: Fish

Test: EC50
Duration: 48 hours
Result: 4.00 mg/L
Species: Daphnia

Test: NOEC



Duration: 72 hours
Result: 0.76 mg/L
Species: Algae

12.2 Persistence and degradability

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

Test: OECD 301 C
Result: 80%
Biodegradability: Yes

Sodium decyl sulphate

Test: OECD 301 D
Result: 80%
Biodegradability: Yes

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

Result: 57%
Biodegradability: Yes

12.3 Bio accumulative potential

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

Potential Bioaccumulation: No

Sodium decyl sulphate

LogPow: 1,72

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

Potential Bioaccumulation: No

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

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

EWC code

16 03 05 – Organic wastes containing dangerous substances

Contaminated packaging

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

14. TRANSPORT INFORMATION

14.1 – 14.4

Not dangerous goods according to ADR, IATA and IMDG

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

15. REGULATORY INFORMATION

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

Restrictions for application

Restricted to professional users

Sources

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.
 Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 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 (CLP)
 Regulation (EC) 1907/2006 (REACH)

15.2 Chemical safety assessment

Chemical safety assessment

Yes

16. OTHER INFORMATION

Full list 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
 H412, Harmful to aquatic life with long lasting effects