



Safety Data Sheet

FOMTEC AFFF 3%

Issue Date 10/10/2012
Revision Date 16/04/2018

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%

Article no: 10-3006-XX

Importer / Supplier: Fire Protection Technologies
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Mt Waverley, Victoria, 3149 Australia.

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SDS Preparer: Fire Protection Technologies

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2. HAZARD IDENTIFICATION

2.1 Classification of substance or mixture

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

Eye Irrit. 2; H319; Calculation method

2.2 Label elements

Hazard Pictograms (CLP)



Composition on the label	Sulfuric acid, mono-C8-10-alkyl esters, sodium salts 0,1 -0,5%, 1 – Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, Ndimethyl-3-sulfo-, N-(c8-18(even numbered) acyl) derivs., hydroxides, inner salts 0,1 -0,5%
Signal word	Warning
Hazard statements	H319 Causes serious eye irritation
Precautionary statements	P264 Wash thoroughly after handling. 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. P337+P313 If eye irritation persists: Get medical advice / attention.

2.3 Other hazards

PBT / vPvB	This 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
Diethylene glycol monobutyl ether	CAS no.: 112-34-5 EC no.: 203-961-6 Index no.: 603-096-00-8	Eye Irrit. 2;H319	5 – 9 %
Sulfuric acid, mono-C8-10-alkyl esters, sodium salts	CAS no.: 85338-42-7 EC no.: 286-718-7	Skin Irrit. 2;H315 Eye Dam. 1; H318	0,1 – 0,5 %
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,Ndimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts	EC no.: 939-455-3 REACH Reg. No.: 01-2119970722-34	Eye Dam. 1; H318 Aquatic Chronic 3; H412	0,1 – 0,5 %
Alkyl polyglycoside	CAS no.: 68515-73-1 EC no.: 500-220-1 REACH Reg. No.: 01-2119488530-36-XXXX	Eye Dam. 1;H318	0,1 – 0,9 %

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	Immediately rinse with plenty of lukewarm water for at least 5 minutes. Make sure to remove any contact lenses from the eyes before rinsing. Contact physician if discomfort continues.
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	Eye rinse facility should be available in connection with the workplace.

4.2 Most important symptoms and effects, both acute and delayed

General symptoms and effects	Slightly irritating to skin. Causes eye irritation.
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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. In case of fire, carbon monoxide and carbon monoxide might be released
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5.2 Special hazards arising from the substance or mixture

Fire and explosion hazards	None
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5.3 Advice for firefighters

Firefighting procedures	Follow the general fire precautions indicated by the workplace
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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.
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6.2 Environmental precautions

Environmental precautionary measures	Prevent discharge of larger quantity to drain. Avoid discharge to the aquatic environment.
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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.
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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. Wear protective equipment, see Section 8.
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7.2 Conditions for safe storage, including any incompatibilities

Storage	Keep cool in a well-ventilated space. Keep containers tightly closed. Protect against direct sunlight.
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8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Substance	Identification	Value	TWA Year
Diethylene glycol monobutyl ether	CAS no.: 112-34-5		
Alkyl polyglycoside	CAS no.: 68515-73-1		
DNEL / PNEC			
Substance	Alkyl polyglycoside		
DNEL	Group: Consumer Route of exposure: Long Term (repeated) – Inhalation – Systemic effect Value: 124 mg/m ³		

Group: Worker
 Route of exposure: Long term (repeated) – Dermal – Systemic effect
 Value: 595000 mg/kg bw/day

Group: Consumer
 Route of exposure: Long term (repeated) – Oral – Systemic effect
 Value: 35,7 mg/kg bw/day

Group: Consumer
 Route of exposure: Long term (repeated) – Dermal – Systemic effect
 Value: 357000 mg/kg bw/day

8.2 Exposure controls

Safety Signs



Eye / face protection

Wear approved chemical safety goggles where eye exposure is reasonably probably

Hand protection

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

Suitable gloves type

Rubber or plastic

Skin protection

Use protective clothing in order to avoid skin contact

Respiratory protection

In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Clear, yellowish liquid
Colour	Yellowish
Odour	Slight odour.
pH	Status: In delivery state Value: 6,5 – 8,5
Freezing point	Value: -5 °C
Specific gravity	Value: ~ 1,015 g/ml
Solubility description	Soluble in water
Viscosity	Value: ≤ 20 mPas Method: Brookfield DV

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

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicological data for substances

Substance	Alkyl polyglycoside
Acute toxicity	Type of toxicity: Acute Effect Tested: LD50 Route of exposure: Oral Value: > 2000 mg/kg Animal test species: Rat
	Type of toxicity: Acute Effect Tested: LD50 Route of exposure: Dermal Value: > 2000 mg/kg Animal test species: Rabbit

Substance	Sulfuric acid, mono-C8-10-alkyl esters, sodium salts
Acute toxicity	Type of toxicity: Acute Effect Tested: LD50 Route of exposure: Oral Value: > 2000 mg/kg bw Animal test species: Rat
Substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, Ndimethyl-3-sulfo-, N-(C8-8(even numbered) acyl) derivs., hydroxides, inner salta
Acute toxicity	Type of toxicity: Acute Effect Tested: LD50 Route of exposure: Oral Value: = 2950 mg/kg bw Animal test species: Rat
	Type of toxicity: Acute Effect Tested: LD50 Route of exposure: Dermal Value: > 2000 mg/kg bw Animal test species: Rat
Other information regarding health hazards	
Skin contact	In case of prolonged contact with skin, may cause irritation
Eye contact	Causes serious eye irritation
Ingestion	In case of ingestion may cause nausea, vomiting, dizziness, confusion, loss of consciousness

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Acute aquatic, fish	Value: ~ 800 mg/l Test duration: 96 h Species: Rainbow Trout
Substance	Alkyl polyglycoside
Acute aquatic, fish	Value: ~ 20 mg/l Test duration: 96 h Species: Cyprinodon Variegatus
Substance	Sulfuric acid, mono-C8-10-alkyl esters, sodium salts
Acute aquatic, fish	Toxicity type: Acute Value: = 110 mg/l Effective dose concentration: LC50 Exposure time: 48 hour(s) Species: Leuciscus idus
	Toxicity type: Acute Value: = 240 mg/l Effect dose concentration: EC50 Species: Daphnia magna
Substance	Alkyl polyglycoside

Acute aquatic, algae	Value: ~ 21 mg/l Test duration: 72 h Species: Skletonerna Costatum
Acute aquatic, Daphnia	Value: ~ 3000 mg/l Test duration: 24 h Species: Daphnia Magna
Substance	Alkyl polyglycoside
Acute aquatic, Daphnia	Value: ~ 150 mg/l Test duration: 48 hrs Species: Acartia Tonsa
Ecotoxicity	The product is not environmentally hazardous to aquatic life
Aquatic, comments	On basis of test data

12.2 Persistence and degradability

Substance	Alkyl polyglycoside
Acute aquatic, fish	Value: ~ 100% Method: OCDE 301E Test period: 28 days
Substance	Sulfuric acid, mono-C8-10-alkyl esters, sodium salts
Acute aquatic, fish	Value: > 60% Method: OECD 301D Comments: Readily biodegradable Test period: 10 days
Substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N, Ndimethyl-3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
Biodegradability	Value: 57% Method: OECD 306 Test period: = 28 days

12.3 Bio accumulative potential

Bio accumulative potential	Bioaccumulation: Is not expected to be bio accumulable.
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12.4 Mobility in soil

Mobility	The product contains substances, which are water soluble and may spread in water systems.
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12.5 Results of PBT and vPvB assessment

PBT assessment results	Not classified as PBT/vPvB by current EU criteria
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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 Classified as hazardous waste: Yes
EU Regulations	The European List of Waste (Commission Decision 2000/532/EC). Annex III to Directive 2008/98/EC

14. TRANSPORT INFORMATION

14.1 UN number

Comments	Not classified as dangerous goods in accordance with ADR/RID/IMO/DGR
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4.2 UN proper shipping name

Comments	Not applicable. No information required.
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14.3 Transport hazard class(es)

Comments	Not applicable. No information required
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14.4 Packing group

Comments	Not applicable. No information required.
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14.5 Environmental hazards

Comments	Not applicable. No information required.
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14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of Marpol 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).
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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
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16. OTHER INFORMATION

List of relevant H-phrases (Section 2 and 3).	H315 Causes skin irritation. H318 Causes Serious eye damage. H319 Causes serious eye irritation H412 Harmful to aquatic life with long lasting effects
Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Eye Irrit. 2; H319; Calculation method