

Safety Data Sheet

FOMTEC AFFF 6% Ultra

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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 6% Ultra

Article no: 10-6020-XX

Importer / Supplier:Fire Protection TechnologiesAddressUnit 1/251 Ferntree Gully Road

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2. HAZARD IDENTIFICATION

2.1 Classification of substance or mixture

Classification according to Regulation (EC) No

Eye Irrit. 2; H319

1272/2008 [CLP / GHS]



2.2 Label elements

Hazard Pictograms (CLP)



Composition on the label Sulfuric acid, mono-C6-12-alkyl esters, sodium salts 1-2, 9%

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).

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Substance	Identification	Classification	Contents
Sulfuric acid, mono-C6-12-alkyl esters, sodium salts	CAS No.: 90583-25-8 EC No.: 292242	Acute tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	1 - 2,9 %
2-(2-Butoxyethoxy) ethnol	CAS No.: 112-345 EC No.: 203-961-6 Index No.: 603-096-00-8 REACH Reg. No.: 01- 2119475104-44	Eye Irrit. 2; H319	3 - 6 %

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

No recommendation given.

4.2 Most important symptoms and effects, both acute and delayed

General symptoms and effects Causes eye irritation. After extensive contact, may cause irritation

to skin. Ingestion of large quantities may cause nausea, vomiting,

dizziness, confusion, loss of consciousness

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 Eye wash facility in working area

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

Hazardous combustion products In case of fire, carbon monoxide and carbon dioxide may

be released

5.3 Advice for firefighters

Personal protective equipment Use personal protective equipment as required

Firefighting procedures Follow the general fire precautions indicated by the

workplace

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures



General measures Ensure good ventilation

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.

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 container tightly closed. Protect against direct

sunlight.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

DNEL / PNEC

Substance Sulfuric acid, mono-C6-12-alkyl esters, sodium salts

DNEL Group: Professional

Route of exposure: Long Term (repeated) – Inhalation – Systemic effect

Value: 285 mg/m3

Group: Professional

Route of exposure: Long term (repeated) – Dermal – Systemic effect

Value: 4060 mg/kg bw/day

Group: Consumer

Route of exposure: Long term (repeated) – Oral – Systemic effect

Value: 24 mg/kg bw/day

Group: Consumer



Route of exposure: Long term (repeated) - Inhalation - Systemic effect

Value: 85 mg/m3

Group: Consumer

Route of exposure: Long term (repeated) – Dermal – Systemic effect

/alue: 2440 mg/kg bw/day

PNEC Route of exposure: Sewage treatment plant STP

Value: 1,35 mg/l

Route of exposure: Sediment Value: 0,125 mg/l

Route of exposure: Sediment Value: 1,25 mg/l

Route of exposure: Water Value: 0,0112 mg/l

Route of exposure: Water Value: 0,112 mg/l

Route of exposure: Soil

Value: 0,185 mg/l

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 An eye wash bottle must be available at the work site

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

Skin / hand protection, long term contact In cases of prolonged, repeated or extensive exposure,

wear protective gloves

Suitable gloves type Rubber or plastic

Skin protection Use protective clothes in order to avoid skin contact

Respiratory protection Ensure good ventilation. 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: 7,6 - 8,6

Freezing point Value: -1 °C

Explosion limit Product is not explosive Relative density Value: $^{\sim}$ 1,010 g/ml Solubility Soluble in water Viscosity Value: \leq 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

Substance Sulfuric acid, mono-C6-12-alkyl esters, sodium salts

Acute toxicity Type of toxicity: Acute

Effect Tested: LD50 Route of exposure: Oral Value: > 2000 mg/kg

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

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

Type of toxicity: Acute Effect Tested: LD50 Route of exposure: Dermal Value: = 2700 mg/kg bw Animal test species: Rabbit

Other information regarding health hazards

Skin contact In case of prolonged contact with skin, may cause

irritation

Eye contact Causes serious eye irritation

In case of ingestion of large quantities may cause nausea,

vomiting, dizziness, confusion, loss of consciousness

Symptoms of exposure

In case of ingestion Ingestion of large quantities may cause nausea, vomiting,

dizziness, confusion, loss of consciousness

In case of skin contact Irritation is possible in case of prolonged contact with skin

In case of eye contact Irritation of eyes and mucous membrane

12. ECOLOGICAL INFORMATION

12.1 Toxicity



Acute aquatic, fish Value: >1700 mg/l

Test duration: 96 h
Species: Rainbow Trout

Substance Sulfuric acid, mono-C6-12-alkyl esters, sodium salts

Acute aquatic, fish Value: ~ 110 mg/l

Test duration: 48 h Species: Leuciscus Idus Method: DIN 38412 T15

Substance 2-(2-Butoxyethoxy) ethanol

Acute aquatic, fish Toxicity type: Acute

Value: = 1300 mg/l

Effective dose concentration: LC50

Exposure time: 96 hour(s)
Species: Lepomis macrochirus

Substance Sulfuric acid, monoC6-12-alkyl esters, sodium salts

Acute aquatic, algae Value: >100 mg/l

Test duration: 48 h

Species: Pseudokirchn. Subcapitata

Acute aquatic, Daphnia Value: >6000 mg/l

Test duration: 24 h Species: Daphnia Magna

Substance Sulfuric acid, mono-C6-12-alkyl esters, sodium salts

Acute aquatic, Daphnia Value: ~ 240 mg/l

Test duration: 48 hrs Species: Daphnia Magna Method: DIN 38412 T11

Substance 2-(2-Butoxyethoxy) ethanol

Acute aquatic, Daphnia Value: >100 mg/l

Effect dose concentration: EC50

Exposure time: 48 hrs Species; D. magna

Ecotoxicity The product is not environmentally hazardous to aquatic

life

Aquatic, comments On basis of test data

12.2 Persistence and degradability

Substance Sulfuric acid, mono-C6-12-alkyl esters, sodium salts

Biodegradability Value: ~ 60%

Test period: 10 days

Substance 2-(2-Butoxyethoxy) ethanol

Biodegradability Value: = 89%

Method: degradation in 28 days OECD 301C

Comments: Readily biodegradable

Substance Sulfuric acid, mono-C6-12-alkyl esters, sodium salts

Chemical oxygen demand (COD) Value: 698 mg/l

Method: DIN 38408 H41

Substance Sulfuric acid, mono-C6-12-alkyl esters, sodium salts



Biological oxygen demand (BOD) Value: 494 mg/l

Method: EN 1899-1 Concentration: 5 days

Persistence and degradability, comments

This product is expected to be biodegradable

12.3 Bio accumulative potential

Bio accumulative potential Bioaccumulation: Is not expected to be bio accumulable.

Substance 2-(2-Butoxyethoxy) ethanol

Bioconcentration factor (BCF) Value: = 2,9

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

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: 160305 organic wastes containing

dangerous substances

Classified as hazardous waste: Yes

EU Regulations Directive 2008/98/EC of the European Parliament and of

the Council of 19 November 2008 on waste and repealing

certain Directives

14. TRANSPORT INFORMATION

14.1 UN number

Comments Not applicable. No information required

4.2 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 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).

15. REGULATORY INFORMATION

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

EEC-directive Commission Directive 2006/15/EC of7 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 201245/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.

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 INFORMTION

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

H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes Serious eye damage. H319 Causes serious eye irritation

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

Eye Irrit. 2; H319