



Safety Data Sheet

FOMTEC FFFP 3%

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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 FFFP 3%

Article no: 13-3029-XX

Importer / Supplier: 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
Skin Irrit. 2; H315
Aquatic Chronic 3;H412

2.2 Label elements

Hazard Pictograms (CLP)



Composition on the label	Zinc chloride 0,1-0,9%, 2-Methylpropan-1-ol 0,5-0,9%
Signal word	Warning
Hazard statements	H315 Causes skin irritation. H319 Causes serious eye irritation H412 Harmful to aquatic life with long lasting effects
Precautionary statements	P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing / eye protection / face protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. 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).
Hazard description, general	Does not contain substances that must be indicated according to current regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Substance	Identification	Classification	Contents
Zinc chloride	CAS no.: 7646-85-7 EC no.: 231-592-0 Index no.: 030-003-00-2 REACH Reg no.: 01-2119472431-44	Acute tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 M-factor 1 Aquatic Chronic 1; H410; M-factor 1	0,1 – 0,9 %
2-Methylpentane-2,4-diol	CAS no.: 107-4-5 EC no.: 203-489-0 Index no.: 603-053-00-3 REACH Reg no.: 01-2119539582-35	Eye Irrit. 2; H319 Skin Irrit. 2; H315	1 – 2,9 %
2-Methylpropan-1-ol	CAS no.: 78-83-1	Flam. Liq. 3; H226	0,5 – 0,9%



	EC No.: 201-148-0	STOT SE 3; H335	
	Index No.: 603-108-00-1	Skin Irrit. 2; H315	
	REACH Reg No.: 01-2119484609-23	Eye Dam. 1; H318	
		STOT SE 3; H336	
Ethanol	CAS No.: 64-17-5	Flam. Liq. 2; H225	1 – 2,9%
	EC No.: 200-578-6		
	Index No.: 603-002-00-5		

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	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.
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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 oxide might be released.

5.3 Advice for firefighters

Personal protective equipment	Wear respiratory protection
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.
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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.
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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
Zinc chloride	CAS no.: 7646-85-7	OEL short term value Value: 2 mg/m ³	
2-Methylpentane-2,4-diol	CAS no.: 107-41-5	TWA (8h): 25 ppm TWA (8h): 123 mg/m ³ OEL short term value Value: 123 mg/m ³	2011
2-Methylpropan-1-ol	CAS no.: 78-83-1	TWA (8h): 50 ppm TWA (8h): 154 mg/m ³ OEL short term value Value: 75 ppm OEL short term value Value: 231 mg/m ³	
Ethanol	CAS no.: 64-17-5	TWA (8h): 1000 ppm TWA (8h): 1920 mg/m ³	

8.2 Exposure controls

Safety Signs



Precautionary measures to prevent exposure

Eye / face protection

Hand protection

Suitable gloves type

Skin protection

Respiratory protection

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

Wear tight-fitting goggles or face shield

Use full length gloves

Butyl rubber

Use protective clothing in order to avoid skin contact

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	Dark coloured liquid
Colour	Dark brown
Odour	Characteristic.
pH	Status: In delivery state Value: 6,5 – 8,5
Freezing point	Value: ~ -15 °C
Boiling point / boiling range	Value: < 100 °C
Flash point	Value: < 100 °C
Vapour density	Value: < 1



Relative density	Value: 1.13 – 1.17
Solubility	Soluble in water
Viscosity	Value: < 100 cSt

10. STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity	Stable product under normal conditions of handling and storage
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10.2 Chemical stability

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

Possibility of hazardous reactions	Stable product under normal conditions of handling and storage
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10.4 Conditions to avoid

Conditions to avoid	Not known under normal conditions of handling and storage
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10.5 Incompatible materials

Materials to avoid	Alkali earth metals.
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10.6 Hazardous decomposition products

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

11.1 Information on toxicological effects

Acute toxicity	Type of toxicity: Acute Effect Tested: LD50 Route of exposure: Oral Value: > 2000 mg/kg Species: Rat
Substance	Zinc chloride
Acute toxicity	Type of toxicity: Acute

	Test duration: 96 h Species: Leuciscus Idus
Substance Acute aquatic, fish	Zinc chloride Toxicity type: Acute Value: = 0,9 mg/l Effect dose concentration: LC50 Exposure time: = 96 hour(s) Comments: Very toxic to aquatic life
Substance Acute aquatic, fish	2-Methylpentane-2,4-diol Toxicity type: Acute Value: = 8510 mg/l Exposure time: 96 hour(s) Species: Gambusia affinis Comments: Not hazardous for environment
Substance Acute aquatic, algae	2-Methylpropan-1-ol Toxicity type: Acute Value: = 290 mg/l Effect dose concentration: IC50 Exposure time: 72 hour(s) Comments: Not hazardous for environment
Substance Acute aquatic, Daphnia	Zinc chloride Toxicity type: Acute Value: = 0,329 mg/l Effect dose concentration: EC50 Exposure time: = 48 hour(s) Species: D. magna Comments: Very toxic to aquatic life
Substance Acute aquatic, Daphnia	2-Methylpentane-2,4-diol Toxicity type: Acute Value: = 2800 mg/l Exposure time: = 48 hour(s) Species: Ceriodaphnia sp. Comments: Not hazardous for environment
Substance Acute aquatic, Daphnia	2-Methylpropan-1-ol Toxicity type: Acute Value: = 1030 mg/l Effect dose concentration: EC50 Exposure time: = 48 hour(s) Species: D. magna Comments: Not hazardous for environment
Ecotoxicity	Harmful to aquatic life with long lasting effects

12.2 Persistence and degradability

Biodegradability	Value: > 90 Method: OECD 301A Test period: 28 days
Substance Biodegradability	2-Methylpentane-2,4-diol Value: = 0,02 Method: BOD5/COD



Substance	2-Methylpropan-1-ol
Biodegradability	Value: = 99% Method: OECD 301A degradation in 14 days Comments: Readily biodegradable
Persistence and degradability, comments	The product is expected to be biodegradable

12.3 Bio accumulative potential

Bio accumulative potential	Bioaccumulation: Is not expected to be bio accumulable.
Substance	Zinc chloride
Bioconcentration factor (BCF)	Value: = 2000 Comments: Risk of bioaccumulation
Substance	2-Methylpentane-2,4-diol
Bioconcentration factor (BCF)	Value: < 10 Comments: No bioaccumulation expected

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	Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives. Annex III to Directive 2008/98/EC

14. TRANSPORT INFORMATION

Dangerous Goods	No
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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).	H225 Highly flammable liquid and vapour H226 Flammable liquid and vapour H302 Harmful if swallowed H314 Causes severe skin burns and eye damage H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H412 Harmful to aquatic life with long lasting effects
Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Aquatic Chronic 3; H412