Safety Data Sheet

FOMTEC ARC 3x3 S

Revision Date 25/10/2019 **Status** ISSUED BY: Fire Protection Technologies

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

1.1 Product Identifier

Product name: Fomtec ARC 3x3 S

Product no: 12-3321-XX / UFI Code

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
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SDS Preparer Fire Protection Technologies

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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)	Prevention: P280, Wear eye protection. P264, Wash hands/exposed areas thoroughly after handling 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.

2.3 Other hazards

Additional Labelling / VOC	Not applicable

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 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	1-3%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	
1-Propanaminium, N-(3-aminopropyl)-2- hydroxy-N,Ndimethyl- 3-sulfo, N-(C8-18(even numbered) acyl) derivs., hydroxides	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

Inhalation	Bring the person into fresh air and stay with him/her.
Skin contact	Immediately remove contaminated clothing and shoes. Ensure that skin, which has been exposed to the material, is washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.
Eye contact	Remove contact lenses. Flush eyes immediately with plenty of water or salt water (20-30°C) for at least 15 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

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

No specific requirements

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

No specific requirements

6.2 Environmental precautions

No specific requirements

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, storage of tobacco, consumption and storage of food or liquids 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)

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

DNEL

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	**DNEL:** 68 mg/m³ **Route of exposure:** Inhalation **Duration:** Long term – Systemic effects – Workers **DNEL:** 101,2 mg/m³ **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/m³ **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 **Duration:** No data available
Sodium decyl sulphate	**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	In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.
Exposure limits	Occupational exposure limits have not been defined for the substances in this product.
Appropriate technical measures	Apply standard precautions during use of the product. Avoid inhalation of gas or dust.
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

Form	Liquid
Colour	Pale yellow
Odour	Characteristic
pH	6-7.5
Density (g/cm^3)	~1.03
Viscosity	>2400 mPa.s
Melting point	°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
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 (Modified MITI Test) **Result:** 80% **Biodegradability:** Yes
Sodium decyl sulphate	**Test:** OECD 301 D (Closed Bottle) **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
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

Product is not covered by the regulations on dangerous waste.

EWC code	16 03 06 – Organic wastes other than those mentioned in 16 03 05
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	None

15.2 Chemical safety assessment

Chemical safety assessment	Yes

16. OTHER INFORMTION

Full list of H-phrases as mentioned in Section 3	H225, Highly flammable liquid and vapour H301, Toxic if swallowed H302, Harmful if swallowed H311, Toxic in contact with skin H315, Causes skin irritation H318, Causes serious eye damage H319, Causes serious eye irritation H331, Toxic if inhaled H370, Causes damage to organs H371, May cause damage to organs H373, May cause damage to organs through prolonged or repeated exposure H412, Harmful to aquatic life with long lasting effects