Safety Data Sheet

FOMTEC ARC 3x3 NV

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Status ISSUED BY: Fire Protection Technologies

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

Product name:	Fomtec ARC 3x3 NV
Product no:	12-3340-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
Emergency Services	Dial 000
SDS Preparer	Fire Protection Technologies
Manufacturer:	Dafo Fomtec AB Garnisonsg. 47 A, Helsingborg Box 683 S-13526 Tyreso Sweden
	www.fomtec.com

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Eye Irrit. 2; H319; Causes serious eye irritation

2.2. Label elements

Hazard pictograms (CLP)

Signal word	Warning
Hazard statements	Causes serious eye irritation.
Prevention	P280, Wear eye protection P264, Wash hands/exposed areas thoroughly after handling
Response	P337+P313, If eye irritation persists: Get medial 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

3. COMPOSITION / INFORMATION ON INGREDIENTS

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	10-15%	Eye Irrit. 2; H319;	Annex XVII, EU
Sodium decyl sulphate	CAS No.: 142-87-0 EC No.: 205-568-5	3-5%	Acute Tox 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	
D-Glucopyranose, oligomers, decyl octyl glycosides	CAS No.: 68515-73-1 EC No.: 500-220-1	3-5%	Eye Dam. 1, H318	
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.: 01-2119970722-34-0000	>1%	Eye Dam. 1; H318 Aquatic Chronic 3; H412	

4. FIRST AID MEASURES

4.1. Description of first aid measures

General	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 inured persons condition or if the symptoms persist. Never give an unconscious person water or other drink.
Inhalation	Bring the person into fresh air and stay with them
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 isotonic water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure to flush under 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 them. 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 needed

If eye irritation persists	Get medical advice/attention

5. FIRE FIGHTING 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

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 are not allowed in the workrooms.

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 CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	Long term exposure limit (8 hours): 10 ppm Long term exposure limit (8 hours): 67,5 mg/m^3 Short term exposure limit (15 minutes): 15 ppm Short term exposure limit (15 minutes): 101,2 mg/m^3

DNEL / PNEC

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/m^3 **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/m^3 **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
D-Glucopyranose, oligomers, decyl octyl glycosides	**DNEL:** 595000 mg/kg **Route of exposure:** Dermal **Duration:** Long term – Systemic effects – Workers **DNEL:** 420 mg/m^3 **Route of exposure:** Inhalation **Duration:** Long term – Systemic effects – Workers **DNEL:** 357000 mg/kg **Route of exposure:** Dermal

	Duration: Long term – Systemic effects – General population
	DNEL: 124 mg/m^3 **Route of exposure:** Inhalation **Duration:** Long term – Systemic effects – General population
	DNEL: 35.7 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, inner salts	**DNEL:** 0,33 mg/kg **Route of exposure:** Dermal **Duration:** Long term – Systemic effects – Workers
	DNEL: 1,18 mg/m^3 **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/m^3 **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
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	**PNEC:** 1.1 mg/L **Route of Exposure:** Freshwater **Duration of Exposure:** No data available
	PNEC: 0,11 mg/L **Route of Exposure:** Marine water **Duration of Exposure:** No data available
	PNEC: 0,44 mg/L **Route of Exposure:** Marine water sediment **Duration of Exposure:** No data available
	PNEC: 4.4 mg/kg **Route of Exposure:** Freshwater sediment **Duration of Exposure:** No data available
	PNEC: 0.32 mg/kg **Route of Exposure:** Soil **Duration of Exposure:** No data available
Sodium decyl sulphate	**PNEC:** 0,095 mg/L **Route of Exposure:** Freshwater **Duration of Exposure:** No data available
	PNEC: 0,0095 mg/L **Route of Exposure:** Marine water **Duration of Exposure:** No data available
	PNEC: 1,5 mg/kg **Route of Exposure:** Fresh water sediment

	Duration of Exposure: No data available
	PNEC: 0,15 mg/kg **Route of Exposure:** Marine water sediment **Duration of Exposure:** No data available
	PNEC: 0,2445 mg/kg **Route of Exposure:** Soil **Duration of Exposure:** No data available
	PNEC: 0,086 mg/l **Route of Exposure:** Intermittent release **Duration of Exposure:** No data available
D-Glucopyranose, oligomers, decyl octyl glycosides	**PNEC:** 0,1 mg/L **Route of Exposure:** Freshwater **Duration of Exposure:** No data available
	PNEC: 0,01 mg/L **Route of Exposure:** Marine water **Duration of Exposure:** No data available
	PNEC: 0.487 mg/kg **Route of Exposure:** Fresh water sediment **Duration of Exposure:** No data available
	PNEC: 0.048 mg/kg **Route of Exposure:** Marine water sediment **Duration of Exposure:** No data available
1-Propanaminium,N-(3-aminopropyl)-2-hydroxy-N,Ndimethyl- 3-sulfo-, N-(C8-18(even numbred) acyl) derivs., hyroxides, inner salts	**PNEC:** 0,021 mg/L **Route of Exposure:** Freshwater **Duration of Exposure:** Continuous
	PNEC: 0,00152 mg/L **Route of Exposure:** Marine water **Duration of Exposure:** No data available
	PNEC: 0,697 mg/kg **Route of Exposure:** Marine water sediment **Duration of Exposure:** No data available
	PNEC: 0,0414 mg/kg **Route of Exposure:** Soil **Duration of Exposure:** No data available
	PNEC: 6.97 mg/kg **Route of Exposure:** Freshwater sediment **Duration of Exposure:** No data available
	PNEC: 100 mg/L **Route of Exposure:** Sewage Treatment Plant **Duration of Exposure:** No data available

8.2. Exposure controls

General recommendations	Smoking, eating and drinking are not allowed in the work premises
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	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 an exhaust system if normal air flow in the workroom 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.
Individual protection measures, such as personal protective equipment	Use only CE marked protective equipment
Skin protection	Dedicated work clothing should be worn
Hand protection	Vinyl / PVC -0.6mm Glove thickness
Eye protection	Wear Safety Glasses with side shields – EN166 Standards

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Pale yellow
Odour	Characteristic
pH	6.5 – 8.5
Density (g/cm^3)	~1.03
Viscosity	~100 mPa.s
Melting Point (°C)	- 2
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 the 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	The product is not degraded when used as specified in section 1

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Substance	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Acute toxicity	**Species:** Mouse **Test:** LD50 **Route of exposure:** Oral **Result:** 2410.00 mg/kg **Species:** Rat **Test:** LC50

	Route of exposure: Inhalation **Result:** 29.00 ppm
	Species: Rabbit **Test:** LD50 **Route of exposure:** Dermal **Result:** 2764.00 mg/kg
	Species: Rat **Test:** LD50 **Route of exposure:** Oral **Result:** 5660.00 mg/kg
Sodium decyl sulphate	**Species:** Rat **Test:** LD50 **Route of exposure:** Oral **Result:** 1200.00 mg/kg
	Species: Rat **Test:** LD50 **Route of exposure:** Dermal **Result:** 2000.00 mg/kg
D-Glucopyranose, oligomers, decyl octyl glycosides	**Species:** Rat **Test:** LD50 **Route of exposure:** Dermal **Result:** 2000.00 mg/kg
	Species: Rat **Test:** LD50 **Route of exposure:** Oral **Result:** 2000.00 mg/kg
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,Ndimethyl- 3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts	**Species:** Rat **Test:** LD50 **Route of exposure:** Oral **Result:** 2950.00 mg/kg
	Species: Rat **Test:** LD50 **Route of exposure:** Dermal **Result:** 2000.00 mg/kg
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

Substance	2-(2- butoxyethoxy)ethanol; diethylene glycol monobutyl ether
	Species: Fish **Test:** LC50 **Duration:** 96 hours **Result:** 1300.00 mg/l
	Species: Daphnia

	Test: EC50 **Duration:** 48 hours **Result:** 100.00 mg/l **Species:** Algae **Test:** EC50 **Duration:** 96 hours **Result:** 100.00 mg/l
Substance	Sodium decyl sulphate
	Species: Fish **Test:** LC50 **Duration:** 48 hours **Result:** 13.00 mg/l **Species:** Algae **Test:** EC50 **Duration:** 72 hours **Result:** 8.64 mg/l
Substance	D-Glucopyranose, oligomers, decyl octyl glycosides
	Species: Algae **Test:** EC50 **Duration:** 72 hours **Result:** 20.71 mg/l **Species:** Fish **Test:** LC50 **Duration:** 96 hours **Result:** 21.00 mg/l **Species:** Algae **Test:** EC50 **Duration:** 72 hours **Result:** 37.00 mg/l **Species:** Daphnia **Test:** EC50 **Duration:** 48 hours **Result:** 100.00 mg/l
Substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,Ndimethyl- 3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
	Species: Fish **Test:** LC50 **Duration:** 96 hours **Result:** 0.23 mg/l **Species:** Daphnia **Test:** EC50 **Duration:** 48 hours **Result:** 4.00 mg/l **Species:** Algae **Test:** NOEC **Duration:** 72 hours **Result:** 0.76 mg/l

12.2 Persistence and Degradability

Substance	2-(2- butoxyethoxy)ethanol; diethylene glycol monobutyl ether
	Biodegradability: Yes **Test:** OECD 301 C (Modified MITI Test) **Result:** 80%
Substance	Sodium decyl sulphate
	Biodegradability: Yes **Test:** OECD 301 D (Closed Bottle) **Result:** 80%
Substance	D-Glucopyranose, oligomers, decyl octyl glycosides
	Biodegradability: Yes **Test:** OECD 301 E (Modified OECD Screening Test) **Result:** 100%
Substance	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,Ndimethyl- 3-sulfo-, N-(C8-18(even numbered) acyl) derivs., hydroxides, inner salts
	Biodegradability: Yes **Result:** 57%

12.3 Bioaccumulative Potential

Substance	2-(2- butoxyethoxy)ethanol; diethylene glycol monobutyl ether
	Potential Bioaccumulation: No
Substance	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 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

15. REGULATORY INFORMATION

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

Sources	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) 1907/2006 (REACH)

15.2. Chemical safety assessment

Chemical safety assessment	Yes

16. OTHER INFORMATION

Full text 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.