



Safety Data Sheet

This safety data sheet complies with the requirements of: WHS regulation 2011

Product name ANSULITE AFC-3A 3% AFFF CONCENTRATE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product name ANSULITE AFC-3A 3% AFFF CONCENTRATE
Product code 426919
Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Sold to the general public No
Recommended use Fire extinguishing agent
Uses advised against Consumer use

1.3. Details of the supplier of the safety data sheet

Supplier Tyco Fire Protection Products
Level 3, 95 Coventry Street,
Southbank, Australia-Victoria 3006
+613 9313 9711

For further information, please contact

E-mail address psra@tycofp.com

1.4. Emergency telephone number

Emergency Telephone Number 612 9037 2994 (Australia)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

2.2. Label Elements

Product Identifier

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

Signal Word

None

EUH210 - Safety data sheet available on request

2.3. Other Hazards

No information available

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Chemical name	CAS No	weight-%	Classification according to Regulation (EC) No.
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			1272/2008 [CLP]
2-(2-Butoxyethoxy)ethanol	112-34-5	<10%	Eye Irrit. 2 (H319)
Lauryl Imino Propionate, Sodium Salt	14960-06-6	<10%	Eye Irrit. 2A (H319)
2-Methyl-2,4-pentanediol	107-41-5	<1%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)
t-Butanol	75-65-0	<1%	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) STOT SE 3 (H335)
Formaldehyde	50-00-0	<0.01%	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Carc. 2 (H351)

Full text of H- and EUH-phrases: see section 16

Section 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.).
Skin contact	Wash skin with soap and water. Get medical attention if irritation develops and persists.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison control centre or physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Product is extinguishing agent. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None

5.2. Special hazards arising from the substance or mixture



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None known

Hazardous Combustion Products

Carbon oxides. Fluorinated oxides. Nitrogen oxides (NOx). Oxides of sulphur.

5.3. Advice for firefighters

Use personal protective equipment as required.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions

Ensure adequate ventilation, especially in confined areas.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Pick up and transfer to properly labelled containers.

6.4. Reference to other sections

See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection



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8.1. Control parameters

Exposure Limits

Chemical name	Australia
2-Methyl-2,4-pentanediol 107-41-5	25 ppm Peak 121 mg/m ³ Peak
t-Butanol 75-65-0	100 ppm 303 mg/m ³ 150 ppm STEL 455 mg/m ³ STEL
Formaldehyde 50-00-0	1 ppm 1.2 mg/m ³ 2 ppm STEL 2.5 mg/m ³ STEL

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection Avoid contact with eyes. Tight sealing safety goggles.

Hand protection Wear protective gloves.

Skin and Body Protection Suitable protective clothing.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid	Colour	Light yellow
Odour	Characteristic		
odour threshold	No data available		

Property	VALUES	Remarks • Method
pH	7.5	
Melting point/freezing point		No data available
Boiling point / boiling range	> 100 °C	
Flash Point	> 100 °C	
Evaporation Rate		No data available
flammability (solid, gas)		No data available
Flammability limit in air		
Upper flammability limit:		No data available



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Lower flammability limit:		No data available
Vapour Pressure		No data available
Vapour Density		No data available
Specific gravity		No data available
Water Solubility		No data available
solubility(ies)		No data available
Partition coefficient		No data available
Autoignition Temperature		No data available
Decomposition Temperature		No data available
Kinematic viscosity	2.9 mm ² /s	
Dynamic viscosity		No data available
Explosive Properties	No data available	
Oxidising Properties	No data available	
density	1.03	

Section 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

hazardous polymerisation

Hazardous polymerisation does not occur.

Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Strong oxidising agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NO_x). Oxides of sulphur. Fluorinated oxides.

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Product information

Product does not present an acute toxicity hazard based on known or supplied information.

INHALATION	no data available.
Eye Contact	no data available.
Skin contact	no data available.
INGESTION	no data available.

The following values are calculated based on chapter 3.1 of the GHS document



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ATEmix (oral) 38,763.00 mg/kg
ATEmix (dermal) 30,928.00 mg/kg

Chemical name	Oral LD50	dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)		
2-(2-Butoxyethoxy)ethanol	= 3384 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	
1-Propanesulfonic Acid, 2-methyl-, 2-((1-oxo-3-((gamma-omega-perfluoro-C4-16-alkyl)thio)propyl)amino) derivs, sodium salts	> 10,000 ppm (Rat)		
Sodium Decyl Sulfate	= 1950 mg/kg (Rat)		
Octylphenoxy polyethoxyethanol	= 4190 mg/kg (Rat)		
2-Methyl-2,4-pentanediol	= 3692 mg/kg (Rat)	= 8560 µL/kg (Rabbit)	> 310 mg/m ³ (Rat) 1 h
t-Butanol	= 2733 mg/kg (Rat)	> 2 g/kg (Rabbit)	> 10000 ppm (Rat) 4 h
Sodium chloride	= 3 g/kg (Rat)	> 10 g/kg (Rabbit)	> 42 g/m ³ (Rat) 1 h
Tolyltriazole	= 675 mg/kg (Rat)		
Polyethylene Glycol	= 28 g/kg (Rat)	> 20 mL/kg (Rabbit) > 20 g/kg (Rabbit)	
Formaldehyde	= 500 mg/kg (Rat)	= 270 mg/kg (Rabbit)	= 0.578 mg/L (Rat) 4 h

Skin Corrosion/Irritation No information available.
Serious eye damage/eye irritation No information available.
sensitisation No information available.
Germ Cell Mutagenicity No information available.
carcinogenicity No information available.

Chemical name	European Union
Formaldehyde	Carc. 2

Reproductive Toxicity No information available.
STOT - Single Exposure No information available.
STOT - Repeated Exposure No information available.
Aspiration Hazard No information available.

Section 12: Ecological information

12.1. Toxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
2-(2-Butoxyethoxy)ethanol	EC50 96 h > 100 mg/L Desmodesmus subspicatus	LC50 96 h = 1300 mg/L Lepomis macrochirus static	EC50 24 h = 2850 mg/L Daphnia magna EC50 48 h > 100 mg/L Daphnia magna
2-Methyl-2,4-pentanediol	-	LC50 96 h 10500 - 11000 mg/L Pimephales promelas flow-through LC50 96 h = 10000 mg/L Lepomis macrochirus static LC50 96 h =	EC50 48 h 2700 - 3700 mg/L Daphnia magna



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		8690 mg/L Pimephales promelas flow-through LC50 96 h = 10700 mg/L Pimephales promelas static	
t-Butanol	EC50 72 h > 1000 mg/L Desmodesmus subspicatus	LC50 96 h 6130 - 6700 mg/L Pimephales promelas flow-through	EC50 48 h = 933 mg/L Daphnia magna EC50 48 h 4607 - 6577 mg/L Daphnia magna Static
Formaldehyde	-	LC50 96 h 22.6 - 25.7 mg/L Pimephales promelas flow-through LC50 96 h = 1510 µg/L Lepomis macrochirus static LC50 96 h = 41 mg/L Brachydanio rerio static LC50 96 h 0.032 - 0.226 mL/L Oncorhynchus mykiss flow-through LC50 96 h 100 - 136 mg/L Oncorhynchus mykiss static LC50 96 h 23.2 - 29.7 mg/L Pimephales promelas static	LC50 48 h = 2 mg/L Daphnia magna EC50 48 h 11.3 - 18 mg/L Daphnia magna Static

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Chemical name	Partition coefficient
2-Methyl-2,4-pentanediol	0.14
t-Butanol	0.35
Formaldehyde	0.35

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available

Endocrine Disruptor Information**Section 13: Disposal considerations****13.1. Waste treatment methods****Waste from Residues/Unused Products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Do not re-use container.

Section 14: Transport information**Note:**

No information available

IMDG



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14.1 UN/ID no NOT REGULATED
14.2 Proper Shipping Name NOT REGULATED
14.3 Hazard class NOT REGULATED
14.4 Packing group NOT REGULATED
14.5 Marine Pollutant Not Applicable
14.6 Special Provisions None
14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC CODE No information available

RID

14.1 UN/ID no NOT REGULATED
14.2 Proper Shipping Name NOT REGULATED
14.3 Hazard class NOT REGULATED
14.4 Packing group NOT REGULATED
14.5 Environmental Hazard Not Applicable
14.6 Special Provisions None

ADR

14.1 UN/ID no NOT REGULATED
14.2 Proper Shipping Name NOT REGULATED
14.3 Hazard class NOT REGULATED
14.4 Packing group NOT REGULATED
14.5 Environmental Hazard Not Applicable
14.6 Special Provisions None

ICAO (air)

14.1 UN/ID no NOT REGULATED
14.2 Proper Shipping Name NOT REGULATED
14.3 Hazard class NOT REGULATED
14.4 Packing group NOT REGULATED
14.5 Environmental Hazard Not Applicable
14.6 Special Provisions None

IATA

14.1 UN/ID no NOT REGULATED
14.2 Proper Shipping Name NOT REGULATED
14.3 Hazard class NOT REGULATED
14.4 Packing group NOT REGULATED
14.5 Environmental Hazard Not Applicable
14.6 Special Provisions None

Section 15: Regulatory information

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

National Regulations

Australia

See section 8 for national exposure control parameters

carcinogenicity

Chemical name	Australia
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Formaldehyde	probable carcinogen
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International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Complies
PICCS	Does not comply
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

Full text of H-Statements referred to under section 3

H319 - Causes serious eye irritation

Revision date 31-Oct-2016

Revision note Not Applicable.

This safety data sheet complies with the requirements of WHS regulation 2011

End of Safety Data Sheet