



## Safety Data Sheet

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

Product name ANSULITE 3% AFFF ICAO-B

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

#### 1.1. Product Identifier

Product name ANSULITE 3% AFFF ICAO-B  
Product code 430046  
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

Serious eye damage/eye irritation	Category 2 - (H319)
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#### 2.2. Label Elements

Product Identifier



Signal Word

WARNING

hazard statements

H319 - Causes serious eye irritation

precautionary statements

P264 - Wash face, hands and any exposed skin 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



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do. Continue rinsing  
P337 + P313 - If eye irritation persists: Get medical advice/attention

### 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. 1272/2008 [CLP]
2-(2-Butoxyethoxy)ethanol	112-34-5	10 <30%	Eye Irrit. 2 (H319)
D-Glucopyranoside, C9-C11 Oligomer	132778-08-6	<10%	Eye Dam. 1 (H318) Skin Irrit. 2 (H315)
1,2-Propanediol	57-55-6	<10%	no data available
t-Butanol	75-65-0	<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

<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.)
<b>Skin contact</b>	Wash skin with soap and water. Get medical attention if irritation develops and persists.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
<b>Ingestion</b>	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



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### 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

None known

#### **Hazardous Combustion Products**

Carbon oxides. Fluorinated oxides. Nitrogen oxides (NO<sub>x</sub>). Oxides of sulphur.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. 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



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### 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

### 8.1. Control parameters

#### Exposure Limits

Chemical name	Australia
1,2-Propanediol 57-55-6	150 ppm 474 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>
t-Butanol 75-65-0	100 ppm 303 mg/m <sup>3</sup> 150 ppm STEL 455 mg/m <sup>3</sup> STEL
Formaldehyde 50-00-0	1 ppm 1.2 mg/m <sup>3</sup> 2 ppm STEL 2.5 mg/m <sup>3</sup> 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.

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	Amber
Odour	Characteristic		
odour threshold	No data available		



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<u>Property</u>	<u>VALUES</u>	<u>Remarks • Method</u>
pH	7	
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
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		No data available
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<sub>x</sub>). Oxides of sulphur. Fluorinated oxides.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

Acute Toxicity

Product information



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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

ATEmix (oral) 22,865.00 mg/kg

ATEmix (dermal) 18,243.00 mg/kg

Chemical name	Oral LD50	dermal LD50	Inhalation LC50
2-(2-Butoxyethoxy)ethanol	= 3384 mg/kg ( Rat )	= 2700 mg/kg ( Rabbit )	
1,2-Propanediol	= 20000 mg/kg ( Rat )	= 20800 mg/kg ( Rabbit )	
t-Butanol	= 2733 mg/kg ( Rat )	> 2 g/kg ( Rabbit )	> 10000 ppm ( Rat ) 4 h
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
1,2-Propanediol	EC50 96 h = 19000 mg/L Pseudokirchneriella subcapitata	LC50 96 h = 51600 mg/L Oncorhynchus mykiss static LC50 96 h 41 - 47 mL/L Oncorhynchus mykiss static LC50 96 h = 51400 mg/L Pimephales promelas static LC50 96 h = 710 mg/L Pimephales promelas	EC50 48 h > 1000 mg/L Daphnia magna Static EC50 24 h > 10000 mg/L Daphnia magna
t-Butanol	EC50 72 h > 1000 mg/L	LC50 96 h 6130 - 6700 mg/L	EC50 48 h = 933 mg/L Daphnia



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	Desmodemus subspicatus	Pimephales promelas flow-through	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
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

**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**

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	No information available



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**IBC CODE**

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
Formaldehyde	probable carcinogen

International Inventories

TSCA	Complies
DSL/NDL	Complies
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply





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PICCS Does not comply  
AICS Does not comply

**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  
H318 - Causes serious eye damage  
H315 - Causes skin 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