



Safety Data Sheet

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

Product name Ansulite 6% AFFF ICAO-B

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

1.1. Product Identifier

Product name Ansulite 6% AFFF ICAO-B
Product code 430042
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) |
|--|---------------------|

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



Product code 430042

/ Product name Ansulite 6% AFFF /
ICAO-B

PAGE 2 / 9

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% | 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 | <1% | 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

| | |
|---------------------|--|
| 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



Product code 430042

/ Product name Ansulite 6% AFFF /
ICAO-B

PAGE 3 / 9

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_x). 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



Product code 430042

/ Product name Ansulite 6% AFFF /
ICAO-B

PAGE 4 / 9

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 ³ 10 mg/m ³ |
| 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.

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 | | |



Product code 430042

/ Product name Ansulite 6% AFFF /
ICA0-B

PAGE 5 / 9

| <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 | 1.02 | |

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 code 430042

/ Product name Ansulite 6% AFFF / ICAO-B

PAGE 6 / 9

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) 40,771.00 mg/kg

ATEmix (dermal) 32,530.00 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 |



Product code 430042

/ Product name Ansulite 6% AFFF /
ICA0-B

PAGE 7 / 9

| | | | |
|--------------|------------------------|---|--|
| | 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 |



Product code 430042

/ Product name Ansulite 6% AFFF / ICAO-B

PAGE 8 / 9

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 |



Product code 430042

/ Product name Ansulite 6% AFFF /
ICAO-B

PAGE 9 / 9

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