

# MATERIAL SAFETY DATA SHEET

## Ansulite 6 % AFFF (AFC-3)

### SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Ansulite 6 % AFFF (AFC-3) Foam Concentrate	Other Names	None
Recommended Use	The recommended use of this preparation is as a fire extinguishing agent.		
Supplier Name	Wormald	Address	Unit 1, 2-8 South Street Rydalmere, NSW 2116 AUSTRALIA
Telephone No.	133 166	Emergency Telephone No.	133 166 or 000
		Date Prepared	February 2008

### SECTION 2: HAZARDS IDENTIFICATION

Hazard Classification	Not hazardous		
Safety Phrase(s)	Not available	Risk Phrase(s)	Not available

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE		
Chemical Identity of the Pure Substance	Common Name / Synonyms	CAS Number
Not applicable	Not applicable	Not applicable
MIXTURE		
Chemical Identity of Ingredients	Proportion of Ingredients	CAS Number
Diethylene Glycol Monobutyl Ether (Butyl Carbitol) Chemical listed under SARA Title III-Section 313 under general heading "Glycol Ether"	4 %	112-34-5
Tertiary Butyl Alcohol	0.2 %	75-65-0
Hexylene Glycol	0.2 %	107-41-5
Proprietary mixture of hydrocarbon surfactants, fluorosurfactants, and inorganic salts: not otherwise specified.	2 - 5 %	Not applicable
Water	90 - 95 %	7732-18-5

### SECTION 4: FIRST AID MEASURES

Description of Necessary First Aid Measures	EYE CONTACT	Flush with large amounts of water. If irritation persists, seek medical attention.
	SKIN CONTACT	Wash with soap and water. If irritation persists, seek medical attention.
	INHALATION	Remove victim to fresh air. Seek medical attention if discomfort continues.
	INGESTION	If patient is conscious, give large amounts of water and induce vomiting. Seek medical help.
Medical Attention and Special Treatment	See above	
Aggravated Medical Conditions Caused by Exposure	Disease of the kidney and liver.	

### SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media	This is an extinguishing agent	Hazards From Combustion Products	None known, however oxides of nitrogen and sulphur may be formed.
Special Protective Precautions and Equipment for Fire Fighters	None	Hazchem Code	Not hazardous

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Prevent skin and eye contact.
Methods and Materials for Containment and Clean Up	Rinse floor thoroughly with water as material is slippery. Prevent material from reaching sewers or waterways to avoid nuisance foaming.

### SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling	Care should be taken in handling all chemical substances and preparations.
Conditions for Safe Storage, Including any Incompatibilities	No special conditions are needed for safe storage. Store in original container. Keep tightly closed until used.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

National Exposure Standards	SUBSTANCE	ES-TWA		ES-STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
	Tertiary Butyl Alcohol	100	303	150	455
	Hexylene Glycol	25	121	Peak limitation	
Engineering Controls	Not available	Biological Limit Controls		Not available	
Personal Protection Equipment	Chemical goggles, rubber of latex gloves.				

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear straw coloured liquid	Odour	Mild sweet odour
pH	6.5 to 8.5	Vapour Pressure	Not determined
Vapour Density (air = 1)	< 1	Boiling Point / Range	97°C
Freezing / Melting Point (specify)	Not available	Solubility in Water	Completely soluble
Specific Gravity or Density	1.02	Flash Point	None to boiling
Upper and Lower Flammable (explosive) Limits in Air	Not explosive	Ignition Temperature	Does not ignite

**SECTION 10: STABILITY AND REACTIVITY**

Chemical Stability	Stable	Conditions to Avoid	None
Incompatible Materials	Reactive metals, electrically energised equipment, any materials reactive with water, strong oxidisers.	Hazardous Decomposition Products	None known, however oxides of nitrogen and sulphur may be formed.
Hazardous Reactions	None		

**SECTION 11: TOXICOLOGICAL INFORMATION**

Health Effects From the Likely Routes of Exposure	EYE CONTACT	May cause mild transient irritation.
	SKIN CONTACT	May cause mild transient irritation and/or dermatitis.
	INHALATION	Inhalation is not anticipated to be a problem.
	INGESTION	Irritating to mucous membranes. Large oral dose could produce narcosis.
Acute Overexposure	See above	
Chronic Overexposure	Delayed kidney injury, possible liver damage.	

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity	Components: Diethylene glycol monobutyl ether: Fish, <i>Lepomis macrochirus</i> : LC <sub>50</sub> (96 hrs) 1300 mg/L <i>Carrassius auratus</i> : LC <sub>50</sub> (24 hrs) 2700 mg/L Daphnids, <i>Daphnia magna</i> : EC <sub>50</sub> (24 hrs) 3184 mg/L Algae, <i>Scenedesmus subspicatus</i> : EC <sub>50</sub> (96 hrs) > 100 mg/L		
Mobility	Diethylene glycol monobutyl ether: Should not partition from a water column to organic matter contained in sediments and suspended solids.		
Persistence and Degradability	Diethylene glycol monobutyl ether: Indirect photodegradation is about 50 % in 3.5 hours. Aerobic degradation with adapted activated sludge is 60 % after 28 days. COD = 2080 mg/g substance. BOD <sub>5</sub> = 250 mg O <sub>2</sub> /g substance. Theoretical oxygen demand = 2.17 mg/mg.		
Bioaccumulative Potential	Diethylene glycol monobutyl ether: Should not bioaccumulate. Estimated bioaccumulation factor (log BCF) = 0.46		
Environmental Fate (Exposure)	Ozone depleting potential:	None	
	Photochemical ozone creation potential:	None	
	Global warming potential:	None	

**SECTION 13: DISPOSAL CONSIDERATIONS**

Disposal Methods and Containers	As much as possible, keep from being washed into surface water. Dispose of in compliance with local, state and Commonwealth regulations.
Special Precautions for Landfill or Incineration	Not available

**SECTION 14: TRANSPORT INFORMATION**

UN Number	Not applicable	UN Proper Shipping Name	Not applicable
Class and Subsidiary Risk	Not applicable	Packing Group	Not applicable
Special Precautions for User	None	Hazchem Code	Not hazardous

**SECTION 15: REGULATORY INFORMATION**

The regulatory status of a material (including its ingredients) under relevant Australian health, safety and environmental legislation.	Not available
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**SECTION 16: OTHER INFORMATION**

Date of Preparation	February 2008
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END OF MSDS