



## **COMPRESSED AIR FOAM DATASHEET**

# ANSUL ANSULITE 3X3 LV ALCOHOL RESISTANT AFFF MSDS









#### Address

SIRON Compressed Air Foam Holterhofweg 280A NL-7534PT Enschede The Netherlands

#### Contact

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#### Document no's

Revision: -

#### IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING 1.

#### 1.1. Identification of the preparation

F	Product Name:	"ANSULITE 3x3 LOW VISCOSITY" (Alcohol Resistant AFFF Concentrate).
(	Chemical Name:	N/A – This is a mixture/preparation.
(	CAS No.:	N/A – This is a mixture/preparation.
(	Chemical Formula:	N/A – This is a mixture/preparation.
E	EINECS Number:	N/A – This is a mixture/preparation.

### 1.2. Use of the preparation

The intended or recommended use of this preparation is as a FIRE EXTINGUISHING AGENT.

#### 1.3. Company identification

Manufacturer/Supplier:	ANSUL INCORPORATED
Address:	One Stanton Street, Marinette, WI 54143-2542
Prepared by:	Safety and Health Department
Phone:	715-735-7411
Internet/Home Page:	http://www.ansul.com
Date of Issue:	September, 2006

#### 1.4. Emergency telephone

CHEMTREC 800-424-9300 or 703-527-3887

#### **COMPOSITION/INFORMATION ON INGREDIENTS** 2.

2.1.	Ingredient Name: Chemical Formula: CAS No.: EINECS Number: Concentration, Wt %: Hazard Identification:	Proprietary mixture consisting of hydrocarbon surfactants, fluorosurfactants, inorganic salts, high molecular weight polysaccarides, and water. Not otherwise specified. N/A – This is a mixture/preparation. N/A – This is a mixture/preparation. N/A – This is a mixture/preparation. >85 %. See Heading 3.
	Ingredient Name: Chemical Formula: CAS No.: EINECS Number: Concentration, Wt %: Hazard Identification:	Diethylene Glycol Monobutyl Ether (a). $C_4H_9O(CH_2CH_2O)_2H.$ 112-34-5. 203-961-6. 10 %. See Heading 3.
	Ingredient Name: Chemical Formula: CAS No.: EINECS Number: Concentration, Wt %: Hazard Identification:	Tertiary Butyl Alcohol. (CH <sub>3</sub> ) <sub>3</sub> COH. 75-65-0. 200-889-7. 0.95 %. See Heading 3.
	Ingredient Name: Chemical Formula: CAS No.: EINECS Number: Concentration, Wt %: Hazard Identification:	Hexylene Glycol (2-Methylpentane-2,4-diol). $C_6H_{14}O_2$ . 107-41-5. 203-489-0. 0.4 %. See Heading 3.
	Ingredient Name: Chemical Formula: CAS No.: EINECS Number: Concentration, Wt %: Hazard Identification: (a) This chemical is subject	Dowicide A. C <sub>12</sub> H <sub>10</sub> ONa. 132-27-4. 205-055-6. 0.015 %. See Heading 3. to reporting requirements of SARA Title III Section 313 and 40 CFR Section 372.





#### **HAZARDS IDENTIFICATION** 3.

	CATION	
FOR HUMANS: Product: EU Classification: R Phrases: S Phrases:	2 24 26	Irritating to eyes. Keep out of the reach of children. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Components:		
Diethylene Glycol M	onobutyl Ether:	
EU Classification:	Irritant - Xi.	
R Phrases:	36	Irritating to eyes.
S Phrases:	2	Keep out of the reach of children.
		Avoid contact with skin.
		In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Limit Values for Exposur	e:	
Diethylene Glycol Mo	nobutyl Ether:	
	ral Industry) 8 hour T	
MAK (DE) Limit v		100 mg/m <sup>3</sup> .
Short term expo		
(8 times, 5 mir	nutes):	200 mg/m <sup>3</sup> .
Neither this preparation Program, I.A.R.C., or OS		ntained in it have been listed as carcinogenic by National Toxicology

AS PART OF GOOD INDUSTRIAL AND PERSONAL HYGIENE AND SAFETY PROCEDURE, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes, and clothing.

#### SIGNS AND SYMPTOMS:

Acute Exposure:	
Eye Contact:	May cause mild transient irritation.
Skin Contact:	May cause mild transient irritation and/or dermatitis.
Inhalation:	Not an expected route of entry.
Ingestion:	Irritating to mucous membranes. Large oral doses could produce narcosis.
Chronic Overexposure:	Kidney, liver, gastrointestinal, and spleen. Did not interfere with reproduction. However, body weights of newborn animals were decreased.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Diseases of the kidney and liver.

FOR ENVIRONMENT:

As much as possible, keep from being washed into surface waters. See Heading 12.

#### **FIRST AID MEASURES** 4.

Eye Contact:	Flush with large amounts of water. If irritation persists, seek medical attention.
Skin Contact:	Wash thoroughly with soap and water. If irritation persists, seek medical attention.
Inhalation:	Move to fresh air. Seek medical attention if discomfort continues.
Ingestion:	If patient is conscious, give large quantities of water and induce vomiting. Seek medical attention.

#### 5. **FIRE-FIGHTING MEASURES**

This preparation is an extinguishing media. There are NO extinguishing media which must not be used for safety reasons. NO special protective equipment is needed for fire-fighters.

#### 6. ACCIDENTAL RELEASE MEASURES

For personal protection: Prevent skin and eye contact, see Heading 8. Clean up: Use an absorbent material such as diatomaceous earth, sawdust, etc., and sweep up, see Heading 13. As much as possible, keep from being washed into surface waters. See Heading 12.





## 7. HANDLING AND STORAGE

#### 7.1. Handling

Care should be taken in handling all chemical substances and preparations. See incompatibility information in Heading 10.

#### 7.2. Storage

NO special conditions are needed for safe storage. See incompatibility information in Heading 10. Store in original container. Keep tightly closed until used. As much as possible, keep from being washed into surface water. See Heading 12.

#### 7.3. Specific use

The intended or recommended use of this preparation is as a FIRE EXTINGUISHING AGENT.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. Exposure limit values

Limit Values for Exposure: Diethylene Glycol Monobutyl Ether:

OSHA PEL (General Industry) 8 hour TWA:	None established.
MAK (DE) Limit value:	100 mg/m <sup>3</sup> .
Short term exposure limit value	
(8 times, 5 minutes):	200 mg/m <sup>3</sup> .

#### 8.2. Exposure controls

#### 8.2.1. Occupational exposure controls

- 8.2.1.1. Respiratory protection
  - None expected to be needed. Mechanical ventilation is recommended.
- 8.2.1.2. Hand protection

Use chemical resistant gloves when handling the preparation.

8.2.1.3. Eye protection

Chemical goggles are recommended.

#### 8.2.1.4. Skin protection

Standard fire fighting equipment should provide all protection which is necessary.

#### 8.2.2. Environmental exposure controls

As much as possible, keep from being washed into surface water. See Heading 12.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. General information Appearance: Gelled liquid. Odor: Mild, sweet odor.

#### 9.2. Important health, safety, and environmental information

2	Other information	
	Evaporation rate (Butyl acetate = 1):	Approximately 0.005.
	Vapor density (Air = 1):	<1.
	Viscosity:	Not determined.
	Partition coefficient, n-octanol/water:	Not determined.
	<ul> <li>– Fat solubility:</li> </ul>	Not determined.
	<ul> <li>Water solubility:</li> </ul>	Completely soluble.
	Solubility:	
	Relative Density (Water = 1):	1.00.
	Vapor Pressure:	Not determined.
	Oxidizing properties:	Not an oxidizer.
	Explosive properties:	Not explosive.
	Flammability (solid/gas):	Not flammable.
	Flash point:	None to boiling.
	Boiling point/boiling range:	>100 °
	pH:	6.5 to 8.5.

## 9.3. Other information

Auto-ignition temperature:

Does not ignite.





### **10. STABILITY AND REACTIVITY**

#### 10.1. Conditions to avoid

There are NO known conditions such as temperature, pressure, light, shock, etc., which may cause a dangerous reaction.

#### 10.2. Materials to avoid

Reactive metals, electrically energized equipment, any material reactive with water, and strong oxidizers.

#### 10.3. Hazardous decomposition products

Normally stable.

Hazardous polymerization will NOT occur.

Combustion or decomposition products are not known, oxides of nitrogen and sulfur may be found. Hydrogen sulfide may be produced under anaerobic bacterial decomposition.

#### **11. TOXICOLOGICAL INFORMATION**

Product: The toxicity of the product mixture has not been determined. Components: Diethylene glycol monobutyl ether: Oral (rat) LD<sub>50</sub> Toxicity Data: 5,660 mg/kg. [Dow Chemical Co.]. Oral (rat) LD<sub>50</sub> [EINICS ESIS] 9,623 mg/kg. Dermal (rabbit) LD<sub>50</sub> 4,000 mg/kg. [Dow Chemical Co.]. Dermal (rabbit) LD<sub>50</sub> 2,764 mg/kg. [EINICS ESIS]. Irritation Data: 20 mg/24 hrs. Moderate. [EINICS ESIS]. Eye (rabbit) Eve (rabbit) Draize test Highly irritating. [EINICS ESIS]. 1000 mg/kg/day Moderate with edema, fissuring, Skin (rabbit) and leathery appearance. [EINICS ESIS]. Target organs: Kidney, blood, liver, lungs, gastrointestinal, spleen.

#### 12. ECOLOGICAL INFORMATION

#### 12.1. Ecotoxicity

Components:

Diethylene glycol monobutyl ether:

Fish,	Lepomis marcrochinus:	LC <sub>50</sub> (96 hrs)	1,300 mg/L.
	Carrassius auratus:	LC <sub>50</sub> (24 hrs)	2,700 mg/L.
Daphnids,	Daphnia magna:	EC <sub>50</sub> (24 hrs)	3,184 mg/L.
Algae,	Scenedesmus subspicatus:	EC <sub>50</sub> (96 hrs)	>100 mg/L.

#### 12.2. Mobility

Diethylene glycol monobutyl ether: Should not partition from a water column to organic matter contained in sediments and suspended solids.

#### 12.3. 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. $BOD5 = 250 \text{ mg } O_2/g \text{ substance.}$ Theoretical oxygen demand = 2.17 mg/mg.

#### 12.4. Bioaccumulative potential

Diethylene glycol monobutyl ether:

Should not bioaccumulate. Estimated bioaccumulation factor (log BCF) = 0.46.

#### 12.5. Other adverse effects

Ozone depletion potential:	None.
Photochemical ozone creation potential:	None
Global warming potential:	None

#### 13. DISPOSAL CONSIDERATIONS

As much as possible, keep from being washed into surface water. See Heading 12. Dispose of in compliance with national, regional, and local provisions that may be in force.





## 14. TRANSPORT INFORMATION

Hazard Class or Division: Not hazardous. For additional transport information, contact Ansul Incorporated. As much as possible, keep from being washed into surface water. See Heading 12.

#### 15. REGULATORY INFORMATION

EU Classification: R Phrases: S Phrases:	Irritant - Xi. 36 2 24 26	Avoid con	of the reach of children. tact with skin. contact with eyes, rinse immediately with plenty of water and seek
Exposure Limit Valu	es:		
, ,	Monobutyl Ether:		
(	ieneral Industry) 8 hour	TWA:	None established.
MAK (DE) Li			100 mg/m <sup>3</sup> .
	exposure limit value		200 mg/m <sup>3</sup>
(8 times, s	5 minutes):		200 mg/m <sup>3</sup> .
EINECS Status: EPA TSCA Status: Canadian DSL (Don	All components are in	ncluded in	EINECS inventories or are exempt from listing. TSCA inventories or are exempt from listing. nents are included in the DSL or are exempt from listing.
Environmental restri Restrictions on Marl Refer to any other n		None are None are ay be relev	known.

#### 16. OTHER INFORMATION

(HMIS) HAZARDOU	S MATE	RIAL IDENTIFICATION SYSTEM RATINGS:
HEALTH:	1	4. Severe Hazard
FLAMMABILITY:	0	3. Serious Hazard
REACTIVITY:	0	2. Moderate Hazard
		1. Slight Hazard
		0. Minimal Hazard

## (WHMIS) CANADIAN WORKPLACE HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:

This product is rated D2B - Product may irritate eyes, skin or mucous membrane.

Format is from directive 2001/58/EC.

EINECS data is from http://exb.jrc.it/existing-chemicals/

Data used to compile the data sheet is from Ansul Material Safety Data Sheet, February, 2002.

The EU Classification has been changed in accordance with Directive 1999/45/EC and information in the EINICS ESIS files (Existing Substances Information System).

Toxicological information added from the EINICS ESIS (Existing Substances Information System) and from Dow Chemical Company.

A rating under WHMIS has been added, following the Canadian guidelines.

Limit values for exposure for diethylene glycol monobutyl ether were changed, based on EINICS ESIS data.

#### 17. DISCLAIMER

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ANSUL SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

N/A = Not Applicable

NDA = No Data Available



