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

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**1.1. Identification of the preparation**

Product Name: "Ansul 6% Regular Protein Foam 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.  
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, 2003

**1.4. Emergency telephone**

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

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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

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2.1. Ingredient Name: Proprietary mixture of protein hydrolysate, inorganic salts, and water.  
Not otherwise specified.

Chemical Formula: N/A – This is a mixture/preparation.  
CAS No.: N/A – This is a mixture/preparation.  
EINECS Number: N/A – This is a mixture/preparation.  
Concentration, Wt %: Approx. 93%.  
Hazard Identification: See Heading 3.

Ingredient Name: Hexylene Glycol (2-Methylpentane-2,4-diol).  
Chemical Formula:  $C_6H_{14}O_2$ .  
CAS No.: 107-41-5.  
EINECS Number: 203-489-0.  
Concentration, Wt %: 7 %.  
Hazard Identification: See Heading 3.

Ingredient Name: Dichlorophene.  
Chemical Formula:  $C_{13}H_{10}Cl_2O_2$ .  
CAS No.: 97-23-4.  
EINECS Number: 202-567-1.  
Concentration, Wt %: 0.02 %.  
Hazard Identification: See Heading 3.

(a) EINECS does not include synthetic polymers (These are registered in EINECS under their building blocks, monomers.).  
See: 67/548/EEC, article 13; 79/831/EC; and 81/437/EC.

NOTE: Unless a component presents a severe hazard, it does not need to be considered in the MSDS if the concentration is less than 1%. [According to Directive 1999/45/EC.]

### 3. HAZARDS IDENTIFICATION

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FOR HUMANS:

Product:

EU Classification:	Xi	Irritating.
R Phrases:	36/38	Irritating to eyes and skin.
S Phrases:	2	Keep out of the reach of children.

Components:

Hexylene glycol:

EU Classification:	Xi	Irritating.
R Phrases:	36/38	Irritating to eyes and skin.
S Phrases:	2	Keep out of the reach of children.

Limit Values for Exposure:

Hexylene glycol:

ACGIH TLV	100 mg/m <sup>3</sup> .
MAC (NL) Limit value:	125 mg/m <sup>3</sup> .
France: Short term exposure limit value (4 times, 15 minutes):	125 mg/m <sup>3</sup> .

Neither this preparation nor the substances contained in it have been listed as carcinogenic by National Toxicology Program, I.A.R.C., or OSHA.

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 a likely route of entry.
Ingestion:	Irritating to mucous membranes. Large oral doses could produce narcosis.

Chronic Overexposure: Damage to liver, kidney, and central nervous system, metabolic acidosis.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Diseases of the kidney, liver and central nervous system could be affected with prolonged or repeated exposure.

FOR ENVIRONMENT:

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

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### 4. FIRST AID MEASURES

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Eye Contact:	Wash with water for a minimum of 15 minutes. If irritation persists seek medical attention.
Skin Contact:	Wash affected area with soap and water. If irritation persists seek medical attention.
Inhalation:	Remove from exposure. If discomfort continues seek medical attention.
Ingestion:	If patient is conscious, give large amounts of water and induce vomiting. Seek medical attention.

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### 5. FIRE-FIGHTING MEASURES

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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.

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### 6. ACCIDENTAL RELEASE MEASURES

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For personal protection: Prevent skin and eye contact, see Heading 8.

Clean up: Stop leaks. Contain spill. Remove as much as possible. Place in closed container for proper disposal. Wash spill area with large amounts of water to remove traces as material is very slippery. Prevent material from reaching sewers or waterways to avoid nuisance foaming. See Heading 13.

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

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## 7. HANDLING AND STORAGE

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### 7.1. Handling

Care should be taken in handling all chemical substances and preparations.  
Do not mix agents.  
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.  
There is minimal danger to the environment from a storage release. See Heading 12.

### 7.3. Specific use

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

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1. Exposure limit values

Limit Values for Exposure:

Hexylene glycol:

ACGIH TLV: 100 mg/m<sup>3</sup>.

MAC (NL) Limit value: 125 mg/m<sup>3</sup>.

France: Short term exposure limit value  
(4 times, 15 minutes): 125 mg/m<sup>3</sup>.

### 8.2. Exposure controls

#### 8.2.1. Occupational exposure controls

##### 8.2.1.1. Respiratory protection

Mechanical ventilation is preferred.  
Not normally necessary. Approved organic vapor respirator in absence of environmental controls.

##### 8.2.1.2. Hand protection

Use chemical resistant gloves when handling the preparation.

##### 8.2.1.3. Eye protection

Chemical goggles recommended as mechanical barrier for prolonged exposure.

##### 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 waters. See Heading 12.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1. General information

Appearance: Red/Brown opaque liquid.

Odor: Mildly pungent odor.

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

pH: 6.5-8.0.

Boiling point/boiling range: 101 °C initial.

Flash point: None to boiling.

Flammability (solid/gas): Not flammable.

Explosive properties: Not explosive.

Oxidizing properties: Not an oxidizer.

Vapor Pressure: Not determined.

Relative Density (Water = 1): 1.14.

Solubility:

– Water solubility: Completely soluble.

– Fat solubility: Not soluble.

Partition coefficient, n-octanol/water: Not determined.

Viscosity: 8-18 Cs.

Vapor density (Air = 1): <1.

Evaporation rate

(Butyl acetate = 1): Approximately 0.005.

**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 may include oxides of nitrogen and ammonia.

**11. TOXICOLOGICAL INFORMATION**

Product: The toxicity of the product mixture has not been determined.

Components:

Hexylene glycol:

Toxicity Data:	Oral (rat) LD <sub>50</sub>	3,692 mg/kg.
	Dermal (rabbit) LD <sub>50</sub>	13,200 mg/kg.
Irritation Data:	Skin (rabbit)	Moderately irritating.
	Eye (rabbit)	Highly irritating.

Target organs: Kidney and liver.

Ames test was negative.

No toxicity to reproduction was observed at 150 mg/kg/day in a 4 month study.

No sensitization was observed in tests with skin contact on humans.

**12. ECOLOGICAL INFORMATION****12.1. Ecotoxicity**

Components:

Hexylene glycol:

Fish,	Lepomis macrochirus:	LC50 (96 hrs)	12,800 mg/L.
	Carassius auratus:	LC50 (96 hrs)	12,000 mg/L.
Daphnids,	Daphnia magna:	EC50 (48 hrs)	3,300 mg/L.

**12.2. Mobility**

Not determined.

**12.3. Persistence and degradability**

Hexylene glycol:

Aerobic degradation is optimal at 200 ppm, and inhibitory at 1000 ppm.

COD = 2200 mg/g substance.

BOD5 = 0.02 g O<sub>2</sub>/g.

**12.4. Bioaccumulative potential**

Not determined.

**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 waters. 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 waters. See Heading 12.

**15. REGULATORY INFORMATION**

EU Classification: Xi Irritating.  
 R Phrases: 36/38 Irritating to eyes and skin.  
 S Phrases: 2 Keep out of the reach of children.

Limit Values for Exposure:

Hexylene glycol:  
 ACGIH TLV: 100 mg/m<sup>3</sup>.  
 MAC (NL) Limit value: 125 mg/m<sup>3</sup>.  
 France: Short term exposure limit value  
 (4 times, 15 minutes): 125 mg/m<sup>3</sup>.

EINECS Status: All components are included in EINECS inventories or are exempt from listing.

EPA TSCA Status: All components are included in TSCA inventories or are exempt from listing.

Canadian DSL (Domestic Substances List): All components are included in the DSL or are exempt from listing.

Environmental restrictions: None are known.

Restrictions on Marketing and Use: None are known.

Refer to any other national measures that may be relevant.

**16. OTHER INFORMATION****(HMIS) HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:**

HEALTH:	<u>1</u>	4. Severe Hazard
FLAMMABILITY:	<u>0</u>	3. Serious Hazard
REACTIVITY:	<u>0</u>	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 membranes.**

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, June, 2001.

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

Toxicological information added from the EINECS ESIS (Existing Substances Information System).

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

**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.

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