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

1.1. Identification of the preparation

Product Name:	"Ansul Training Foam – Formula 1549-58"
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 for training in the use of FIRE EXTINGUISHING FOAM AGENTS.

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, 2004

1.4. Emergency telephone

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1.

Ingredient Name:	Water.
Chemical Formula:	H_2O.
CAS No.:	7732-18-5.
EINECS Number:	231-791-2.
Concentration, Wt %:	87-95 %.
Hazard Identification:	See Heading 3.
Ingredient Name:	Proprietary mixture of hydrocarbon surfactants and inorganic salts. 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 %:	4-8 %.
Hazard Identification:	See Heading 3.
Ingredient Name:	Propylene Glycol.
Chemical Formula:	$C_3H_8O_2$.
CAS No.:	57-55-6.
EINECS Number:	200-338-0.
Concentration, Wt %:	2-5 %.
Hazard Identification:	See Heading 3.
Ingredient Name:	Dowicide A.
Chemical Formula:	$C_{12}H_{10}ONa$.
CAS No.:	132-27-4.
EINECS Number:	205-055-6.
Concentration, Wt %:	0.02 %.
Hazard Identification:	See Heading 3.

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

2.2. (i) There are NO substances presenting a health or environmental hazard within the meaning of Directive 67/548/EEC, in concentrations equal to or greater than those laid down in the table set out in Article 3 (3) of Directive 1999/45/EC, nor with lower limits given in Annex I to Directive 67/548/EEC or in Annexes II, III or V to Directive 1999/45/EC.

(ii) There are NO substances for which there are Community workplace exposure limits, which are not already included in (i) above.

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

FOR HUMANS:
Product:
EU Classification: Not classified as hazardous.
Components:
Propylene Glycol:
EU Classification: Not classified as hazardous.

Limit Values for Exposure:
Propylene Glycol:
OES (UK): 474 mg/m^3.

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 to moderate 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 doses may produce narcosis.
Chronic Overexposure: Possible delayed liver or kidney damage.

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

FOR ENVIRONMENT:
This preparation is not expected to be harmful to the environment. However, prevent material from reaching sewers or waterways to avoid nuisance foaming. See Heading 12.

4. FIRST AID MEASURES

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, induce vomiting. After material has cleared, give large amounts of water and 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: 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.

This preparation is not expected to be harmful to the environment. However, prevent material from reaching sewers or waterways to avoid nuisance foaming. 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.
Do not mix agents.
Store in original container. Keep tightly closed until used.
This preparation is not expected to be harmful to the environment. However, prevent material from reaching sewers or waterways to avoid nuisance foaming. 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:

Propylene Glycol:
OES (UK): 474 mg/m^3.

8.2. Exposure controls

8.2.1. Occupational exposure controls

8.2.1.1. Respiratory protection

Mechanical ventilation is recommended.
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 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

This preparation is not expected to be harmful to the environment. However, prevent material from reaching sewers or waterways to avoid nuisance foaming. See Heading 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance:	Light Straw Colored, Clear liquid.
Odor:	Slightly sweet odor.

9.2. Important health, safety, and environmental information

pH:	7.0-8.5.
Boiling point/boiling range:	Approximately 101 °C initial.
Flash point:	>100 °C.
Flammability (solid/gas):	Not flammable.
Explosive properties:	Not explosive.
Oxidizing properties:	Not an oxidizer.
Vapor Pressure:	Not determined.
Relative Density (Water = 1):	1.014.
Solubility:	
– Water solubility:	Completely soluble.
– Fat solubility:	Not soluble.
Partition coefficient, n-octanol/water:	Not determined.
Viscosity:	1-10 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, or strong oxidizers.

10.3. Hazardous decomposition products

Normally stable.

Hazardous polymerization will NOT occur.

Not known, however, carbon monoxide and oxides of nitrogen and sulfur may be produced during fire conditions.

11. TOXICOLOGICAL INFORMATION

Product:	The toxicity of the product mixture has not been determined.	
Components:		
Propylene Glycol:		
Toxicity Data:	Oral (rat) LD_{50}	21,000-30,000 mg/kg.
	Oral (rat) LD_{50}	20,000 mg/kg.
	Dermal (rabbit) LD_{50}	20,800 mg/kg.
Irritation Data:	Eye (rabbit)	500 mg/24 hrs. Mild.
	Skin (rabbit)	Not irritating.
Sensitization:	No sensitizing.	
Target organs:	No damage noted.	
Ames test:	Negative.	

There was no toxicity to Reproduction at up to 7.5 % in feed. A diet containing 30 % propylene glycol caused an absence of offspring.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

Propylene Glycol:

Fish:	Oryzias latipes:	LC50 (24 hrs)	>1,000 mg/L.
	Carrassius auratus:	LC50 (24 hrs)	>5,000 mg/L.
	Cyprinodon variegatus:	LC50 (96 hrs)	23,800 mg/L.
Daphnids,	Daphnia magna:	LC50 (48 hrs)	43,500 mg/L.
Algae,	Selenastrum capricornutum:	EC50 (14 day)	19,000 mg/L.

12.2. Mobility

Propylene Glycol:

The low Henry's Law Constant, 1.2 10E-8 cu m/mole, indicates that propylene glycol will tend to stay in water and not migrate to air.

12.3. Persistence and degradability

Propylene Glycol:

Photodegradation under sunlight was 50 % after 32 hours.

Degradation by domestic adapted activated sludge at 2400 mg/L concentration was 100 % after 24 hours.

BOC5:	1170 mgO_2/L.
COD:	2600 mg/g substance.
Ratio BOD5/COD:	0.45.

12.4. Bioaccumulative potential

Propylene Glycol:

Bioaccumulation does not occur, BCF = <1.

12.5. Other adverse effects

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

13. DISPOSAL CONSIDERATIONS

This preparation, if spilled, is NOT a hazardous waste.

This preparation is not expected to be harmful to the environment. However, prevent material from reaching sewers or waterways to avoid nuisance foaming. 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.

This preparation is not expected to be harmful to the environment. However, prevent material from reaching sewers or waterways to avoid nuisance foaming. See Heading 12.

15. REGULATORY INFORMATION

EU Classification: Not classified as hazardous.
Limit Values for Exposure:
Propylene Glycol:
OES (UK): 474 mg/m^3.

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:	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 or skin.**

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 given 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).
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.

MSDS available at http://www.ansul.com