

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

1.1. Identification of the preparation

Product Name: "JET-X FOAM CONCENTRATE (High Expansion 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, 2009

1.4. Emergency telephone

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1. Ingredient Name: Proprietary mixture consisting of sodium and ammonium salts of fatty alcohol sulfates or ether sulfates (C8-C18), higher alcohols, 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 %: >95 %.
 Hazard Identification: See Heading 3.

Ingredient Name: Ethanol (Ethyl Alcohol).
 Chemical Formula: CH₃CH₂OH.
 CAS No.: 64-17-5.
 EINECS Number: 200-578-6
 Concentration, Wt %: 4 %.
 Hazard Identification: See Heading 3.

3. HAZARDS IDENTIFICATION

FOR HUMANS:

Product:

EU Classification:		Flammable – F.
R Phrases:	11	Highly flammable.
S Phrases:	2	Keep out of the reach of children.
	7	Keep container tightly closed.
	16	Keep away from sources of ignition – No smoking.

Components:

Ethanol (Ethyl Alcohol):		
EU Classification:		Flammable – F.
R Phrases:	11	Highly flammable.
S Phrases:	2	Keep out of the reach of children.
	7	Keep container tightly closed.
	16	Keep away from sources of ignition – No smoking.

Limit Values for Exposure:

Ethanol (Ethyl Alcohol):		
ACGIH TLV-TWA:		1000 ppm.
OSHA PEL (General Industry) 8 hour TWA:		1000 ppm (1900 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 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: Behavioral (sleep, motor, headache), lungs, gastrointestinal, liver, endocrine, blood, developmental.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Prior diseases of the liver.

FOR ENVIRONMENT:

NO harm to the environment is expected from an accidental release of this preparation. 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 persists seek, medical attention.

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.

NO harm to the environment is expected from an accidental release of this preparation. 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.

There is minimal danger to the environment from a storage release.

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:

Ethanol (Ethyl Alcohol):

ACGIH TLV-TWA:

1000 ppm.

OSHA PEL (General Industry) 8 hour TWA:

1000 ppm (1900 mg/m³).

8.2. Exposure controls

8.2.1. Occupational exposure controls

8.2.1.1. Respiratory protection

Mechanical ventilation is recommended.

Not expected to be needed. Vapors will be water.

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

NO harm to the environment is expected from an accidental release of this preparation. See Heading 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance: Green Colored, Clear liquid.

Odor: Mild sweet odor.

9.2. Important health, safety, and environmental information

pH: 7.0-8.5.

Boiling point/boiling range: 99 °C initial.

Flash point: 160 °F PMCC.

Flammability (solid/gas): Not flammable.

Explosive properties: Not explosive.

Oxidizing properties: Not an oxidizer.

Vapor Pressure: Not determined.

Relative Density (Water = 1): 1.02.

Solubility:

– Water solubility: Completely soluble.

– Fat solubility: Not soluble.

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

Viscosity: 3-10 Cs.

Vapor density (Air = 1): Not determined.

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.

Combustion or decomposition products include carbon monoxide and oxides of nitrogen and sulfur.

Hydrogen sulfide may be produced during bacterial decomposition under anaerobic conditions.

11. TOXICOLOGICAL INFORMATION

Product:	The toxicity of the product mixture has not been determined.		
Components:			
Ethanol:			
Toxicity Data:	Oral (rat) LD ₅₀	7,060 mg/kg	
	Inhalation (rat) LC ₅₀	20,000 ppm/10 hrs	
Irritation Data:	Skin (rabbit)	400 mg open	Mild
	Eye (rabbit)	500 mg/24 hrs	Moderate
Target organs:	Behavioral (sleep, motor, headache), lungs, gastrointestinal, liver, endocrine, blood, developmental.		

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

Ethanol:			
Fish,	Oncorhynchus mykiss:	LC50 (24 hrs)	11,200 mg/L.
	Alburnus alburnus:	LC50 (96 hrs)	11,000 mg/L.
Daphnids,	Daphnia magna:	EC50 (24 hrs)	10,800 mg/L.

12.2. Mobility

Ethanol:
Its low octanol/water partition coefficient indicates that its absorption to soil will be low.

12.3. Persistence and degradability

Ethanol:
Indirect photodegradation is about 50 % in 6 hours.
Aerobic degradation with adapted activated sludge is 74 % after 5 days.
COD = 1700 mg/g substance.
BOD5 = 0.8 kg/L.

12.4. Bioaccumulative potential

Ethanol:
Will not bioaccumulate.

12.5. Other adverse effects

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

13. DISPOSAL CONSIDERATIONS

NO harm to the environment is expected from an accidental release of this preparation. 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.
NO harm to the environment is expected from an accidental release of this preparation. See Heading 12.

15. REGULATORY INFORMATION

EU Classification:		Flammable – F.
R Phrases:	11	Highly flammable.
S Phrases:	2	Keep out of the reach of children.
	7	Keep container tightly closed.
	16	Keep away from sources of ignition – No smoking.

Limit Values for Exposure:

Ethanol (Ethyl Alcohol):

ACGIH TLV-TWA: 1000 ppm.

OSHA PEL (General Industry) 8 hour TWA: 1000 ppm (1900 mg/m³).

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 changed 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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