

# MATERIAL SAFETY DATA SHEET

**CHEMGUARD 1% AFFF C-103**

Revision Date: 1/9/01

## **1. PRODUCT IDENTIFICATION**

Chemical Family: Surfactant mixture; fire fighting foam concentrate  
*Aqueous Film Forming Foam*

Product name: Chemguard 1% AFFF C-103

Manufacturer: Chemguard, Inc.  
204 South 6th Ave.  
Mansfield, TX 76063  
Emergency phone: 817-473-9964

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

<u>CAS NO.</u>	<u>Common Name</u>	<u>ACGIH/PPM</u>		<u>OSHA/PPM</u>	
		<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>% by wt</u>
7732-18-5	water				35% - 40%
112-34-5	diethylene glycol butyl ether	N/A	N/A	N/A	25% - 30%
mixture	proprietary hydrocarbon surfactant	N/A	N/A	N/A	proprietary
mixture	proprietary fluorosurfactant	N/A	N/A	N/A	proprietary

## **3. HAZARDS IDENTIFICATION**

Routes of entry: Dermal, inhalation and ingestion  
Potential Health Effects: May cause skin and eye irritation.

Carcinogenicity: Not a carcinogen.

## **4. FIRST AID MEASURES**

Ingestion: Do not induce vomiting. Call a physician.

Inhalation: Remove to fresh air.

Skin: Rinse with water. Wash with soap and water. Contaminated clothing should be washed before re-use.

Eyes: Rinse with water. Call a physician.

## **5. FIRE FIGHTING MEASURES**

Flash Point:	>212°F
Flammable Limits in air (lower % by volume):	not evaluated
Flammable Limits in air (upper % by volume):	not evaluated
Auto-ignition Temperature:	not evaluated

General Hazards: None known.

Fire Fighting Equipment: Self contained breathing apparatus

Fire Extinguishing Media: Water, Foam, Carbon Dioxide, Dry Chemical, Halon

Fire and Explosion Hazards: Decomposition products may be toxic.

Hazardous Combustion Products:

## **6. ACCIDENTAL RELEASE**

Contain spills. Vacuum or pump into storage containers, absorb smaller quantities with absorbent materials, and dispose of properly. Washing area with water will create large amounts of foam.

Dispose of released and contained material in accordance with local, state, and federal regulations. Release to local waste treatment plant only with permission.

## **7. HANDLING AND STORAGE**

Store in original container, or appropriate end-use device. Store at temperatures of 35° - 120° F. If the material freezes, it may be thawed without loss of performance.

## **8. EXPOSURE CONTROLS, PERSONAL PROTECTION**

Eye Protection: Wear side-shield safety glasses.

Skin Protection: Wear latex gloves.

Respiratory Protection: Use organic vapor respirator if needed.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point:	205° - 212°F
Melting Point:	28° F
Specific Gravity:	1.036 g/ml
Vapor Pressure (mm Hg):	N/A
pH	7.0 - 8.5
Flash Point (PMCC):	>212°F
Vapor Density (air = 1)	N/A
Solubility in water:	100%
Appearance:	clear amber liquid
Odor:	slight solvent odor

## **10. STABILITY AND REACTIVITY**

Stability: Stable

Incompatibility: Strong oxidizers

Hazardous Polymerization: Will not occur.

Decomposition Products: Oxides of nitrogen, sulfur, carbon.

**11. TOXICOLOGICAL INFORMATION**

Eye Irritation: (Rabbits) mild irritant  
Skin Irritation: (Rabbits) minimal irritant  
Inhalation Toxicity: not evaluated  
Sensitization: not evaluated  
Teratology: not evaluated  
Mutagenicity: not evaluated  
Reproduction: not evaluated  
Acute Oral Effects (Rats): not evaluated

**12. ECOLOGICAL INFORMATION**

	<u>CONCENTRATE</u>	<u>SOLUTION AS USED</u>
Chemical Oxygen Demand:	1,000,000 mg/l	10,000 mg/l
Biological Oxygen Demand (20 day):	797,000 mg/l	7,970 mg/l
Biodegradability (B.O.D./C.O.D.)	80%	80%
Total Organic Carbon:	207,000 mg/l	2,070 mg/l
LC50 (96 hour, pimephales promelas)	63 ppm	6,300 ppm
LC50 (48 hour, daphnia magna)	357 ppm	35,700 ppm

**13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with local, state, and federal regulations. Discharge to waste treatment plants only with permission. Anti-foam agents may be used to reduce foaming in waste streams.

**14. TRANSPORTATION INFORMATION**

Department of Transportation proper shipping name: not regulated

**15. REGULATORY INFORMATION**

All ingredients are on the TSCA inventory.  
No components are reportable under SARA Title III, sec. 313  
No components are priority pollutants listed under the U.S. Clean Water Act Section 307 (2)(1) Priority Pollutant List (40 CFR 401.15).  
No components are reportable under CERCLA.

**16. OTHER INFORMATION**

<b>NFPA Hazard Ratings</b>		<b>HMIS Identification System</b>
1	Health Hazard Rating	1
1	Flammability Rating	1
0	Instability/Reactivity Rating	0