

## MATERIAL SAFETY DATA SHEET



Date Prepared: 1/7/2011

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Chemguard C301MS**

Chemical Family: Surfactant mixture, fire fighting foam concentrate.

Company Identification: Chemguard, Inc.  
 204 South 6<sup>th</sup> Avenue  
 Mansfield, Texas 76063 USA  
 (817) 473-9964 (For Product Information)  
 (817) 473-9964 (For Emergency Information)  
[www.chemguard.com](http://www.chemguard.com)

For a transport accident or leak, fire or major spill, call CHEMTREC, (800) 424-9300.  
 For International CHEMTREC assistance, call (703) 527-3887 (collect calls accepted).

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

## CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS

Chemical Name	Percentage	CAS Number	OSHA Hazard
Diethylene glycol mono butyl ether	0 - 8%	112-34-5	YES
Magnesium sulfate	0.5 - 1.5 %	7487-88-9	YES
Ethylenediamine tetra acetic acid	0.5 - 1.5%	64-02-8	YES
Hydrocarbon Surfactant	Proprietary %	Proprietary	YES
Fluorosurfactant	Proprietary %	Proprietary	YES

## 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**  
**WARNING! MAY CAUSE EYE AND/OR SKIN IRRITATION**

**Routes of Exposure:****Eye Contact:** Exposure during the handling or mixing may cause immediate or delayed irritation or inflammation.**Skin Contact:** Exposure during the handling or mixing may cause immediate or delayed irritation or inflammation.**Ingestion:** Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea.**Inhalation:** Exposure to this product in excess of the applicable TVL or PEL may cause or aggravate other lung conditions. Exposure to this product may cause irritation to the nose, throat, and upper respiratory system.**Chronic:** None known**Medical Conditions which May be Aggravated by Inhalation or Dermal Exposure:** Persons with unusual (hyper) sensitivity to chemicals may experience adverse reactions to this product.

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**Carcinogenic Potential:** This product and its ingredients are not listed as a carcinogen by NTP, OSHA, ACGIH or IARC.

## 4. FIRST AID MEASURES

**Eyes:** Immediately flush eyes thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids. Seek immediate medical attention.

**Skin:** In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation or redness occurs. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.

**Ingestion:** If victim is conscious and alert, give 2 – 3 glasses of water to drink. Do not induce vomiting without medical advice. Do not induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

**Inhalation:** If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues. If breathing is difficult, give oxygen. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

**Notes to Physician:** All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## 5. FIRE FIGHTING MEASURES

**Flash Point** – No flash to boil

**Lower Explosive Limit** – Not Applicable

**Upper Explosive Limit** – Not Applicable

**Hazardous Combustion Products** – None known

**Unusual Fire & Explosion Hazards** – None known

**Extinguishing Media** – Water, Foam, Carbon Dioxide, Dry Chemical, Halon

**Special fire fighting Procedures** – None

**Auto Ignition Temperature** – Not Applicable

## 6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protective gear for the situation. See Personal Protection information in section 8.

**Containment of Spill:** Dike or retain dilution water or water from firefighting for later disposal. Follow procedure described below under cleanup and disposal of spills.

**Cleanup and Disposal of Spill:** Vacuum or pump into an appropriate storage container. For smaller spills use absorbent materials and dispose of properly. Washing area with water will create large amounts of foam.

**Environmental and Regulatory Reporting:** Runoff from fire control or dilution water may cause pollution. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

## 7. HANDLING AND STORAGE

**Minimum/Maximum Storage Temperature:** Store at temperatures of 35°F - 120°F. If material freezes, it may be thawed without loss of performance.

**Handling:** Use with adequate ventilation.

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**Storage:** Store in an area that is dry, well ventilated and in closed containers.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure techniques may be used to effectively minimize employee exposures.

**Eye Protection:** When engaged in activities where product could contact the eye, wear safety glasses with side shields, goggles, or face shield.

**Skin Protection:** Skin contact should be minimized through use of latex gloves and suitable long sleeved clothing. Consideration must be given both to durability as well as permeation resistance.

**Respiratory Protection:** Avoid actions that cause dust exposure to occur. Use local or general ventilation to control exposures below applicable exposure limits. NIOSH or MSHA approved particulate filter respirators should be used in the context of respiratory protection program meeting the requirements of the OSHA respiratory protection standard [29 CFR 1910.134] to control exposures when ventilation or other controls are inadequate or discomfort or irritation is experienced. Respirator and/or filter cartridge selection should be based on American National Standards Institute (ANSI) Standards Z88.2 Practices for Respiratory Protection.

**Ventilation:** Use local exhaust or general dilution ventilation to control exposure within applicable limits.

### **Work Practice Controls:**

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- (3) Wash exposed skin promptly to remove accidental splashes or contact with this material.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** – Clear yellow liquid

**Odor** – Faint chemical odor

**Physical State** – Liquid

**Specific Gravity (H<sub>2</sub>O=1)** – 1.079

**pH** 7.7-8.7

**Vapor Pressure** – Not Evaluated

**Density** – Not Evaluated

**Boiling Point** – 212°F

**Melting Point** – 32°F

**Solubility in Water** – 100% Soluble

## 10. STABILITY AND REACTIVITY

**Stability:** Stable.

**Conditions to avoid:** Unintentional contact with water.

**Hazardous Polymerization:** Hazardous polymerization will not occur.

**Incompatibility with other materials:** Strong oxidizers

**Hazardous Decomposition:** Oxides of nitrogen, sulfur, carbon.

## 11. TOXICOLOGICAL INFORMATION

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## **Acute Eye and Skin Toxicity Data:**

Toxicological Information and Interpretation:

Eye Irritation: (Rabbit) mild irritant

Skin Irritation: (Rabbit) minimal irritant

Inhalation Toxicity: Not evaluated

Sensitization: Not evaluated

Teratology: Not evaluated

Mutagenicity: Not evaluated

Reproduction: Not evaluated

Acute Oral Effects (Rats): Not evaluated

## **Chronic Toxicity:**

This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.

## 12. ECOLOGICAL INFORMATION

	<b><u>Concentration</u></b>	<b><u>Solution (As Used)</u></b>
Chemical Oxygen Demand:	260,544 mg/l	7,816 mg/l
Biological Oxygen Demand (20 Day)	330,890 mg/l	9,927 mg/l
Biodegradability (B.O.D./C.O.D.)	99.90%	99.90%
Total Organic Carbon:	Not Determined	Not Determined
LC50 (96 hour pimephales promelas)	1,134 mg/l	37,800 mg/l
LC50 (48 hour, daphnia magna)	1,016 mg/l	33,870 mg/l

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal:** Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Dispose of waste material according to local, state and federal regulations. Discharge to waste treatment facilities only with permission. Anti-foam agents may be used to reduce foaming in the waste streams. Do not incinerate.

## 14. TRANSPORTATION INFORMATION

**Hazardous Materials Description/Proper Shipping Name:** NOT REGULATED

**Hazard Class:** Not Applicable

**Identification Number:** Not Applicable

**Required Label Text:** Not Applicable

**Hazardous Substances/Reportable Quantities:** Not Applicable

## 15. REGULATORY INFORMATION

### **FEDERAL REGULATORY STATUS:**

**Status under OSHA Hazard Communication Standard, 29 CFR 1910.1200:** This product is considered a

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"hazardous chemical" under this regulation, and should be included in the employer's hazard communication program.

## Reportable Quantities Under the Clean Water Act, CERCLA, and EPCRA, 40 CFR 117, 302 and 355:

The product contains no component regulated under section 304 (40 CFR 370).

## Hazard Category and Applicability of EPCRA Hazardous Substance Inventory Reporting, 40 CFR 370:

Not listed

## Applicability of EPCRA Toxic Chemical Release Inventory (TRI) Reporting, 40 CFR 372:

Not subject to TRI reporting

## Status Under the Toxic Substances Control Act, 40 CFR 710:

All chemical(s) comprising this product are either exempt or listed on the TSCA Inventory.

## SARA Title III Hazard Classes:

Fire Hazard: NO  
Reactive Hazard: NO  
Release of Pressure: NO  
Acute Health Hazard: YES  
Chronic Health Hazard: NO

## State Regulations:

### California:

This product does not contain any components that are regulated under California Proposition 65.

### Pennsylvania:

This product does not contain any components on the Pennsylvania Right to Know List.

## 16. OTHER INFORMATION

**NFPA Ratings:** Health: 1 Flammability: 0 Reactivity: 0

## Label Requirements:

**WARNING! MAY CAUSE EYE AND/OR SKIN IRRITATION**

Hazardous Material Information System (HMIS):	Health	1
	Flammability	0
	Reactivity	0
	Personal Protection	A

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

Protective Equipment: Safety glasses, gloves

## ADDITIONAL INFORMATION:

The information contained in this document is given in good faith and based on our current knowledge. It is only an indication and is in no way binding, notably as regards infringement of, or prejudice to third parties through the

## **Chemguard C301MS**

use of our products. Chemguard guarantees that its products comply with its sales specifications. This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations.

END OF MSDS