

SAFETY DATA SHEET



Date Prepared: 3/29/2011

Supersedes Date: NEW

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: **Chemguard Ultraguard CUG**

Chemical Family: Surfactant mixture, aqueous film forming foam
Product Use/Description: Fire-fighting foam concentrate.
Product Restrictions: Do not use with strong oxidizers.

Company Identification:
International Security & Safety Systems Co.
Address: 49, Abbas AL-Akkad, Nasr City
Cairo, Egypt
www.issystems.com
Phone: (202) 22602808 (For Product Information)

MSDS Preparer: Regulatory Compliance Specialist (202) 24017430

READ THE ENTIRE MSDS FOR A COMPLETE HAZARD ASSESSMENT

2. HAZARDS IDENTIFICATION

This product was classified according to the GHS (Globally Harmonized System for Classification and Labeling of Chemicals) criteria.

EU Classification - None



HAZARD STATEMENTS: Warning – IRRITANT

EU Risk (R) and Safety (S) Phrases –

R36/37/38 Irritating to eyes, respiratory system and skin.

S2 - Keep out of the reach of children

S24/25 - Avoid contact with skin and eyes

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28 - After contact with skin, wash immediately with plenty of soap and water or a recognized skin cleaner

S36/37 - Wear suitable protective clothing and gloves.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S53 - Avoid exposure - obtain special instructions before use.

S46 - If swallowed, seek medical advice immediately and show this container or label.

EYE CONTACT: Immediate or delayed irritation or inflammation.

SKIN CONTACT: Immediate or delayed irritation or inflammation.

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INHALATION: Exposure to this product in excess volumes may cause or aggravate other lung conditions. Exposure to this product may cause irritation to the nose, throat, and upper respiratory system.

INGESTION: Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea. Drink plenty of water. Do not induce vomiting. Seek medical attention.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS

<u>Chemical Name</u>	<u>Percentage</u>	<u>CAS Number</u>	<u>EC Number</u>
Solvent (Proprietary)	6 - 12%	TS	TS
Hydrocarbon Surfactants	TS %	TS	TS
Fluorosurfactants	TS %	TS	TS
Xanthan Gum	1 - 2%	11138-66-2	234-394-2

Some items on this MSDS may be designated as trade secrets (TS).

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: 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

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

Special firefighting Procedures – None

Hazardous Combustion Products – None known

Unusual Fire & Explosion Hazards – Emits toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

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.

Personal Protection Equipment:

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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. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

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.

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. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

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 – amber liquid

Odor – Very slight solvent odor

Physical State – Liquid

Specific Gravity (H₂O=1) – 1.02

pH - 6.9 - 7.9

Flashpoint – No flash to boil

Evaporation rate – Not Applicable

Vapor Pressure – Not Evaluated

Density – Not Evaluated

Boiling Point – Not Evaluated

Melting Point – Not Evaluated

Solubility in Water – 100% Soluble

Odor threshold – Not Evaluated

Flammability (solid/gas) – Not Applicable

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Upper/lower flammability/explosive limits – Not Applicable
Decomposition temperature– Not Evaluated
Partition coefficient (n-octanol/water) – Not Evaluated

Auto ignition temperature - Not Evaluated
Vapor density - Not Evaluated

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

ROUTES OF EXPOSURE:

EYE CONTACT: Immediate or delayed irritation or inflammation.

SKIN CONTACT: Immediate or delayed irritation or inflammation.

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.

INGESTION: Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhea. Drink plenty of water. Do not induce vomiting. Seek medical attention.

Acute Eye and Skin Toxicity Data: The toxicity of this product was not evaluated.

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

	<u>Concentration</u>	<u>Solution (As Used)</u>
Chemical Oxygen Demand:	280,000 mg/l	8,400 mg/l
Biological Oxygen Demand (20 Day)	200,000 mg/l	6,000 mg/l
Biodegradability (B.O.D./C.O.D.)	71%	71%
Total Organic Carbon:	8,200 mg/l	246 mg/l
LC50 (96 hour pimephales promelas)	Not Determined	Not Determined
LC50 (48 hour, daphnia magna)	757 mg/l	25230 mg/l

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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

U.S. Department of Transportation (DOT)

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

Marine pollutant: No

International Air Transport Association (IATA): Not Regulated

Special precautions - NA

15. REGULATORY INFORMATION

FEDERAL REGULATORY STATUS:

Status under OSHA Hazard Communication Standard, 29 CFR 1910.1200: This product is considered a "hazardous chemical" under this regulation, and should be included in the employer's hazard communication program.

SARA Title III Section 313 EPCRA Toxic Chemical Release Inventory (TRI) Reporting, 40 CFR 372:

The following chemicals are listed:

Chemical	CAS#
Diethylene glycol butyl ether (as Glycol ethers)	112-34-5.

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).

Clean Air Act:

The following chemicals are listed) as a hazardous air pollutant (HAP):

Chemical	CAS#
Diethylene glycol butyl ether (as Glycol ethers)	112-34-5.

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 chemicals comprising this product are listed or exempt on the TSCA Inventory.

SARA Title III Hazard Classes:

Fire Hazard: NO

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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 Right To Know Components

The following chemicals are listed:

Chemical	CAS#
Diethylene glycol butyl ether (as Glycol ethers)	112-34-5.

INTERNATIONAL REGULATIONS:

Canadian Regulations:

Workplace Hazard Materials Information System (WHMIS)

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

WHMIS Classification - This product is not a "Controlled Product" under WHMIS.

Canada DSL/NDSL:

The following chemicals are listed:

Chemical	CAS#
Diethylene glycol butyl ether	112-34-5.

Canada - Ingredient Disclosure List:

The following chemicals are listed:

Chemical	CAS#
Diethylene glycol butyl ether	112-34-5.

All components are listed or exempt the following inventories:

Europe (EINECS): Yes

16. OTHER INFORMATION

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

Label Requirements:

WARNING! MAY CAUSE EYE AND/OR SKIN IRRITATION

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



Protective Equipment: A (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 use of our products. ISS 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