# Safety Data Sheet

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard ( 29CFR 1910.1200)

**Product name** CHEMGUARD XTRA

## 1. Identification

### 1.1. Product Identifier

**Product name** CHEMGUARD XTRA

### 1.2. Other means of identification

**Product code** CXP
**Synonyms** None
**Chemical Family** Fire fighting foam, surfactant

### 1.3. Recommended use of the chemical and restrictions on use

**Recommended use** Fire extinguishing agent.
**Uses advised against** None known.

### 1.4. Details of the Supplier of the Safety Data Sheet

**Company Name** Chemguard, Inc
204 South 6th Ave
Mansfield, TX 76063
Telephone: 817-473-9964
www.chemguard.com
**Contact point** Product Stewardship at 1-715-735-7411
**E-mail address** psra@tycofp.com

### 1.5. Emergency Telephone Number

**Emergency telephone** CHEMTREC 001-800-424-9300 or 001-703-527-3887

## 2. Hazards Identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation - Category 2
Carcinogenicity - Category 1A

### 2.2. Label Elements

**Signal Word**
DANGER

**Hazard Statements**
Causes serious eye irritation
May cause cancer

**Precautionary Statements**

**Prevention**
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling.

**Response**
IF exposed or concerned: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Storage**
Store locked up.

**Disposal**
Dispose of contents/container to an approved waste disposal plant.

### 2.3. Hazards Not Otherwise Classified (HNOC)
Not Applicable.

### 2.4. Other Information
Toxic to aquatic life with long lasting effects.

Unknown Acute Toxicity — 12.4975% of the mixture consists of ingredient(s) of unknown toxicity

## 3. Composition/information on Ingredients

### 3.1. Mixture
The following component(s) in this product are considered hazardous under applicable OSHA(USA)

| Chemical name | CAS No. | weight-% |
|---|---|---|
| 2-(2-Butoxyethoxy)ethanol | 112-34-5 | 7 - 13 |
| Trade secret | Proprietary | 3 - 7 |
| Sulfuric Acid, mono-C10-16 esters, Ammonium salts | 68081-96-9 | 3 - 7 |
| Lauryl Alcohol | 112-53-8 | 1 - 5 |
| Isopropanol | 67-63-0 | 1 - 5 |
| 1-Tetradecanol | 112-72-1 | 0.1 - 1 |

## 4. First aid measures

### 4.1. Description of first aid measures
**General Advice** — Keep victim under observation. Move victim to a safe isolated area. Move victim to fresh air. Remove contaminated clothing and shoes.

**Eye Contact** — Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact** — Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Inhalation** — Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.).

**Ingestion** — Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison control center or physician immediately.

### 4.2. Most Important Symptoms and Effects, Both Acute and Delayed
**Symptoms** — No information available.

**4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed**

**Note to physicians** Treat symptomatically.

## 5. Fire-fighting measures

**5.1. Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**5.2. Unsuitable Extinguishing Media**

None.

**5.3. Specific Hazards Arising from the Chemical**

None known.

**Hazardous Combustion Products** Carbon oxides, Nitrogen oxides (NOx), Oxides of sulfur

**5.4. Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**5.5. Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Ensure adequate ventilation, especially in confined areas.

**For emergency responders** Use personal protection recommended in Section 8.

**6.2. Environmental Precautions**

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

**6.3. Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Pick up and transfer to properly labeled containers.

## 7. Handling and Storage

**7.1. Precautions for Safe Handling**

**Advice on safe handling** Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials** Strong oxidizing agents. Strong acids. Strong bases.

## 8. Exposure Controls/Personal Protection

### 8.1. Control Parameters

**Exposure guidelines**

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH | Mexico OEL |
|---|---|---|---|---|
| 2-(2-Butoxyethoxy)ethanol<br>112-34-5 | TWA: 10 ppm inhalable fraction and vapor | - | - | - |
| Isopropanol<br>67-63-0 | STEL: 400 ppm<br>TWA: 200 ppm | - | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 980 mg/m$^3$<br>STEL: 500 ppm<br>STEL: 1225 mg/m$^3$ | TWA 400 ppm (VLE-PPT)<br>TWA 980 mg/m$^3$ (VLE-PPT)<br>STEL 500 ppm(PPT-CT)<br>STEL 1225 mg/m$^3$(PPT-CT) |

*ACGIH (American Conference of Governmental Industrial Hygienists) OSHA (Occupational Safety and Health Administration of the US Department of Labor) NIOSH IDLH Immediately Dangerous to Life or Health*

### 8.2. Appropriate Engineering Controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

### 8.3. Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Avoid contact with eyes. Tight sealing safety goggles.

**Skin and Body Protection** Wear protective gloves and protective clothing.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Ventilation** Use local exhaust or general dilution ventilation to control exposure with applicable limits

### 8.4. General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

**Physical State** Liquid
**Odor** Slight solvent **Color** Amber
**Odor Threshold** No data available

| Property | Values | Remarks • Method |
|---|---|---|
| **pH** | 7.0 - 8.5 | |
| **Melting point/freezing point** | 2 °C / 36 °F | |
| **Boiling point / boiling range** | > 100 °C / 212 °F | |
| **Flash Point** | > 100 °C / > 212 °F | |
| **Evaporation Rate** | No data available | |

| | |
|---|---|
| **Flammability (solid, gas)** | No data available |
| **Flammability limit in air** | |
| **Upper flammability limit:** | No data available |
| **Lower flammability limit:** | No data available |
| **Vapor Pressure** | No data available |
| **Vapor Density** | No data available |
| **Specific gravity** | 1.00 - 1.20 |
| **Water Solubility** | Completely soluble |
| **Solubility in Other Solvents** | No data available |
| **Partition coefficient** | No data available |
| **Autoignition Temperature** | No data available |
| **Decomposition Temperature** | No data available |
| **Kinematic viscosity** | No data available |

## 10. Stability and Reactivity

### 10.1. Chemical Stability

Stable under recommended storage conditions.

### 10.2. Reactivity

No data available

### 10.3. Possibility of hazardous reactions

None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

### 10.4. Conditions to Avoid

Extremes of temperature and direct sunlight.

### 10.5. Incompatible Materials

Strong oxidizing agents. Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Oxides of sulfur.

## 11. Toxicological Information

### 11.1. Information on Likely Routes of Exposure

**Product information** No data available

**Inhalation** No data available.

**Eye Contact** No data available.

**Skin contact** No data available.

**Ingestion** No data available.

**Acute Toxicity**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| 2-(2-Butoxyethoxy)ethanol 112-34-5 | = 5660 mg/kg ( Rat ) | = 2700 mg/kg ( Rabbit ) | - |
| Lauryl Alcohol 112-53-8 | > 12800 mg/kg ( Rat ) | - | - |
| Isopropanol 67-63-0 | = 1870 mg/kg ( Rat ) | = 4059 mg/kg ( Rabbit ) | = 72600 mg/m³ ( Rat ) 4 h |
| 1-Tetradecanol 112-72-1 | > 20 g/kg ( Rat ) | = 8 g/kg ( Rabbit ) | - |

### 11.2. Information on Toxicological Effects

**Symptoms** No information available.

### 11.3. Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin Corrosion/Irritation** Mild Irritant. (rabbit).
**Serious eye damage/eye irritation** Mild Irritant. (rabbit).
**Sensitization** No information available.
**Germ Cell Mutagenicity** No information available.
**Carcinogenicity** No information available.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Isopropanol 67-63-0 | - | Group 3 | - | X |

*IARC (International Agency for Research on Cancer)*
*Group 1 - Carcinogenic to Humans*
*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*
*X - Present*

**Reproductive Toxicity** No information available.
**STOT - Single Exposure** No information available.
**STOT - Repeated Exposure** No information available.
**Target organ effects** Eyes, Respiratory System, Skin.
**Aspiration Hazard** No information available.

### 11.4. Numerical Measures of Toxicity - Product information

**The following values are calculated based on chapter 3.1 of the GHS document** mg/kg mg/l

## 12. Ecological Information

### 12.1. Ecotoxicity

Toxic to aquatic life with long lasting effects.

6.4975% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|---|---|---|---|
| 2-(2-Butoxyethoxy)ethanol 112-34-5 | EC50 (96h) > 100 mg/L Desmodesmus subspicatus | LC50 (96h) static = 1300 mg/L Lepomis macrochirus | EC50 (48h) > 100 mg/L Daphnia magna EC50 (24h) = 2850 mg/L Daphnia magna |
| Sulfuric Acid, mono-C10-16 esters, Ammonium salts 68081-96-9 | EC50 (96h) = 42 mg/L Desmodesmus subspicatus | LC50 (48h) static = 19 mg/L Leuciscus idus | EC50 (24h) = 56 mg/L Daphnia magna |
| Lauryl Alcohol 112-53-8 | EC50 (96h) = 0.62 mg/L Desmodesmus subspicatus | LC50 (96h) = 0.1855 mg/L Pimephales promelas LC50 (96h) flow-through = 1.01 mg/L Pimephales promelas | EC50 (48h) = 320 mg/L Daphnia magna |
| Isopropanol 67-63-0 | EC50 (72h) > 1000 mg/L Desmodesmus subspicatus EC50 (96h) > 1000 mg/L Desmodesmus subspicatus | LC50 (96h) flow-through = 9640 mg/L Pimephales promelas LC50 (96h) static = 11130 mg/L Pimephales promelas LC50 (96h) > 1400000 µg/L Lepomis macrochirus | EC50 (48h) = 13299 mg/L Daphnia magna |
| 1-Tetradecanol | EC50 (96h) > 10 mg/L | LC50 (96h) > 10000 mg/L | - |

| | | | |
|---|---|---|---|
| 112-72-1 | Desmodesmus subspicatus | Brachydanio rerio | |

### 12.2. Persistence and Degradability

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Biodegradability (B.O.D./C.O.D.) 56 %
Total Organic Carbon 78,500 mg/l

### 12.3. Bioaccumulation

No information available.

| Chemical name | Partition coefficient |
|---|---|
| Lauryl Alcohol<br>112-53-8 | 5.36 |
| Isopropanol<br>67-63-0 | 0.05 |
| 1-Tetradecanol<br>112-72-1 | 5.5 |

### 12.4. Other Adverse Effects

No information available

## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Do not reuse container.

## 14. Transport Information

**DOT** NOT REGULATED

**TDG** NOT REGULATED

**MEX** NOT REGULATED

**ICAO (air)** NOT REGULATED

**IATA** NOT REGULATED

**IMDG** NOT REGULATED

## 15. Regulatory Information

### 15.1. International Inventories

**TSCA** Complies
**DSL/NDSL** Does not comply
**ENCS** Does not comply
**IECSC** Does not comply
**KECL** Does not comply
**PICCS** Does not comply
**AICS** Does not comply

**Legend:**
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AICS** - Australian Inventory of Chemical Substances

## 15.2. US Federal Regulations

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name | SARA 313 - Threshold Values % |
|---|---|
| 2-(2-Butoxyethoxy)ethanol - 112-34-5 | 1.0 |
| Isopropanol - 67-63-0 | 1.0 |

**SARA 311/312 Hazard Categories**

| | |
|---|---|
| **Acute Health Hazard** | Yes |
| **Chronic health hazard** | Yes |
| **Fire Hazard** | No |
| **Sudden Release of Pressure Hazard** | No |
| **Reactive Hazard** | No |

**CWA (Clean Water Act)**
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## 15.3. US State Regulations

**U.S. State Right-to-Know Regulations**

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| 2-(2-Butoxyethoxy)ethanol 112-34-5 | X | - | X |
| Isopropanol 67-63-0 | X | X | X |

## 16. Other information, including date of preparation of the last revision

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards** 2 | **Flammability** 0 | **Instability** 0 | **Physical and chemical properties** - |
| **HMIS** | **Health Hazards** 2* | **Flammability** 0 | **Physical Hazards** 0 | **Personal Protection** X |

**Revision date** 21-Dec-2017
**Revision note** No information available.
**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**