



## Safety Data Sheet

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

**Product name** SILV-EX PLUS Class A Fire Control Foam Concentrate

### 1. Identification

#### 1.1. Product Identifier

**Product name** SILV-EX PLUS Class A Fire Control Foam Concentrate

#### 1.2. Other means of identification

**Product code** 434467  
**Synonyms** None  
**Chemical Family** No information available

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

**Recommended use** Fire extinguishing agent  
**Uses advised against** Consumer use

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

**Company Name** Tyco Fire Protection Products  
One Stanton Street  
Marinette, WI 54143-2542  
Telephone: 715-735-7411  
**Contact point** Product Stewardship at 1-715-735-7411  
**E-mail address** psra@tycofp.com

#### 1.5. Emergency Telephone Number

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

### 2. Hazards Identification

#### Classification

#### OSHA Regulatory Status

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

Serious eye damage/eye irritation - Category 2A

#### 2.2. Label Elements

##### Signal Word

WARNING

##### hazard statements

Causes serious eye irritation



#### Precautionary Statements

##### Prevention

Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection.



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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.

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

Not Applicable.

### 2.4. OTHER INFORMATION

Toxic to aquatic life with long lasting effects.

## 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-%
1-(2-Butoxy-1-methylethoxy)propan-2-ol	29911-28-2	5 - 10
Sodium Alkene sulphonate	68439-57-6	5 - 10
Lauryl Alcohol	112-53-8	1 - 5

## 4. First aid measures

### 4.1. Description of first aid measures

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water. Get medical attention if irritation develops and persists.
<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.).
<b>Ingestion</b>	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

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

### 5.2. Unsuitable Extinguishing Media

None.



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### **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** . This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### **8.2. Appropriate Engineering Controls**

**Engineering controls** Showers  
Eyewash stations



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Ventilation systems.

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

<b>Eye/Face Protection</b>	Avoid contact with eyes. Tight sealing safety goggles.
<b>Skin and Body Protection</b>	Wear protective gloves and protective clothing.
<b>Respiratory Protection</b>	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.
<b>Ventilation</b>	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**

<b>Physical State</b>	Liquid	<b>Color</b>	No data available
<b>Odor</b>	Characteristic		
<b>odor threshold</b>	No data available		
<b>Property</b>	<b>VALUES</b>	<b>Remarks • Method</b>	
<b>pH</b>	7		
<b>Melting point/freezing point</b>	No data available		
<b>Boiling point / boiling range</b>	100 °C / 212 °F		
<b>Flash Point</b>	> 100 °C / > 212 °F		
<b>Evaporation Rate</b>	No data available		
<b>flammability (solid, gas)</b>	No data available		
<b>Flammability limit in air</b>			
<b>Upper flammability limit:</b>	No data available		
<b>Lower flammability limit:</b>	No data available		
<b>Vapor Pressure</b>	No data available		
<b>Vapor Density</b>	No data available		
<b>Specific gravity</b>	No data available		
<b>Water Solubility</b>	No data available		
<b>Solubility in Other Solvents</b>	No data available		
<b>Partition coefficient</b>	No data available		
<b>Autoignition Temperature</b>	No data available		
<b>Decomposition Temperature</b>	No data available		
<b>Kinematic viscosity</b>	No data available		

**10. Stability and Reactivity**

**10.1. Chemical Stability**

Stable under recommended storage conditions.

**10.2. Reactivity**



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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
1-(2-Butoxy-1-methylethoxy)propan-2-ol 29911-28-2	= 1620 µL/kg ( Rat )	= 5860 µL/kg ( Rabbit )	= 42.1 ppm ( Rat ) 4 h
Sodium Alkene sulphonate 68439-57-6	= 2310 mg/kg ( Rat )	= 6300 mg/kg ( Rabbit )	-
Lauryl Alcohol 112-53-8	> 5000 mg/kg ( Rat )	-	-

### **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**

**sensitization** No information available.

**Germ Cell Mutagenicity** No information available

**carcinogenicity** No information available.

**Reproductive Toxicity** No information available.

**STOT - Single Exposure** No information available.

**STOT - Repeated Exposure** No information available.

**Aspiration Hazard** No information available.



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

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

**12. Ecological Information****12.1. ecotoxicity**

Toxic to aquatic life with long lasting effects

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
1-(2-Butoxy-1-methylethoxy)propan-2-ol 29911-28-2	-	LC50 96 h = 841 mg/L <i>Poecilia reticulata</i> static	-
Sodium Alkene sulphonate 68439-57-6	-	LC50 96 h = 12.2 mg/L <i>Brachydanio rerio</i> semi-static LC50 96 h 1.0 - 10.0 mg/L <i>Brachydanio rerio</i> static	-
1,2-Propanediol 57-55-6	EC50 96 h = 19000 mg/L <i>Pseudokirchneriella subcapitata</i>	LC50 96 h = 51600 mg/L <i>Oncorhynchus mykiss</i> static LC50 96 h 41 - 47 mg/L <i>Oncorhynchus mykiss</i> static LC50 96 h = 51400 mg/L <i>Pimephales promelas</i> static LC50 96 h = 710 mg/L <i>Pimephales promelas</i>	EC50 48 h > 1000 mg/L <i>Daphnia magna</i> Static EC50 24 h > 10000 mg/L <i>Daphnia magna</i>
Lauryl Alcohol 112-53-8	EC50 96 h = 0.62 mg/L <i>Desmodesmus subspicatus</i>	LC50 96 h = 1.01 mg/L <i>Pimephales promelas</i> flow-through LC50 96 h = 0.1855 mg/L <i>Pimephales promelas</i>	EC50 48 h = 320 mg/L <i>Daphnia magna</i>

**12.2. Persistence and Degradability**

No information available.

**12.3. Bioaccumulation**

No information available.

Chemical name	Partition coefficient
Lauryl Alcohol 112-53-8	5.36

**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



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<u>TDG</u>	NOT REGULATED
<u>MEX</u>	NOT REGULATED
<u>ICAO (air)</u>	NOT REGULATED
<u>IATA</u>	NOT REGULATED
<u>IMDG</u>	NOT REGULATED

## 15. Regulatory Information

### 15.1. International Inventories

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

#### 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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic health hazard	No
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

#### California Proposition 65

This product does not contain any Proposition 65 chemicals



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

Chemical name	New Jersey	Massachusetts	Pennsylvania
1,2-Propanediol 57-55-6	X	-	X

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

<u>NFPA</u>	Health Hazards 1	flammability 1	Instability 0	Physical and chemical properties -
<u>HMIS</u>	Health Hazards 1	flammability 1	Physical Hazards 0	Personal Protection X

Revision date 25-May-2015

**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