

# **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 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 2A

#### 2.2. Label Elements

#### Signal Word

WARNING

#### **Hazard Statements**

Causes serious eye irritation



#### **Precautionary Statements**



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#### Prevention

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

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

Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

Unknown Acute Toxicity 29.7% 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-%
Sodium Alkene sulphonate	68439-57-6	7 - 13
1-(2-Butoxy-1-methylethoxy)propan-2-ol	29911-28-2	5 - 10
Lauryl Alcohol	112-53-8	1 - 5

#### 4. First aid measures

#### 4.1. Description of first aid measures

**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

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



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#### 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.

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



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#### 8.1. Control Parameters

#### **Exposure guidelines**

#### 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 Characteristic Color Light yellow

Odor Threshold No data available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

No data available

pH 7 - 8.5

Melting point/freezing pointNo data availableBoiling point / boiling range100 °C / 212 °FFlash Point> 100 °C / > 212 °FEvaporation RateNo data availableFlammability (solid, gas)No data available

Flammability limit in air

Kinematic viscosity

Upper flammability limit: No data available Lower flammability limit: No data available **Vapor Pressure** No data available **Vapor Density** No data available No data available Specific gravity Water Solubility No data available Solubility in Other Solvents No data available No data available **Partition coefficient** No data available **Autoignition Temperature Decomposition Temperature** No data available

## 10. Stability and Reactivity



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#### 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** Severely irritating to eyes.

**Skin contact** Irritating to skin.

**Ingestion** No data available.

## **Component Information**

**Acute Toxicity** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Alkene sulphonate 68439-57-6	= 2220 mg/kg ( Rat )	> 740 mg/kg ( Rabbit )	-
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
Lauryl Alcohol	> 12800 mg/kg (Rat)	-	-

## 11.2. Information on Toxicological Effects

**Symptoms** No information available.



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

Skin Corrosion/Irritation Severe skin irritation. Serious eye damage/eye irritation Severely irritating to eyes. No information available. Sensitization **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.

## 11.4. Numerical Measures of Toxicity - Product information

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 8981 mg/kg ATEmix (dermal) 5472 mg/kg

# 12. Ecological Information

## 12.1. Ecotoxicity

Harmful to aquatic life with long lasting effects.

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

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

#### 12.2. Persistence and Degradability

No information available.

# 12.3. Bioaccumulation

No information available.

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

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#### 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 Complies
ENCS Does not comply
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

Yes



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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

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

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

# 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 -
118410	11 141 11 1. 4	F1	BL -'	D

HMIS Health Hazards 1 Flammability 1 Physical Hazards 0 Personal Protection X

Revision date 20-Oct-2017

Revision note No information available.

**Disclaimer** 

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**End of Safety Data Sheet**