

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	
<u>1.1. Product Identifier</u> Product name	SILV-EX PLUS Class A Fire Control Foam Concentrate
1.2. Other means of identification Product code Synonyms Chemical Family	434467 None No information available
1.3. Recommended use of the cher	
Recommended use	Fire extinguishing agent
Uses advised against	Consumer use
1.4. Details of the Supplier of the S	afety 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	

<u>Classification</u> 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



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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

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 Symptoms	<u>HEffects, Both Acute and Delayed</u> No information available.

4.3. Indication of Any Immediate Medical Attention and Special Treatment NeededNote to physiciansTreat symptomatically.

5. Fire-fighting measures



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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.

5.3. Specific Hazards Arising from the Chemical

None known. Hazardous Combustion Products Carbon oxides, Nitrogen oxides (NOx), Oxides of sulfur

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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 cont	ainment 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. Handling and Storage 7.1. Precautions for Safe Handling	l		
	Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.		
7.1. Precautions for Safe Handling	Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.		
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.		

8. Exposure Controls/Personal Protection



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8.1. Control Parameters Exposure guidelines 8.2. Appropriate Engineering Controls

Engineering controls	Showers

Ingineering controls	Showers
	Eyewash stations
	Ventilation systems.

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

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



Decomposition TemperatureNo data availableKinematic viscosityNo 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.
	no data avallabio.

Eye Contact no data available.

Skin contact	no data available.
Okin Contact	

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)	-



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Lauryl Alcohol > 5000 mg 112-53-8	/kg(Rat) -	-
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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			
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.		

<u>11.4. Numerical Measures of Toxicity - Product information</u> 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 components(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 Poecilia reticulata static	-
Sodium Alkene sulphonate 68439-57-6	-	LC50 96 h = 12.2 mg/L Brachydanio rerio semi-static LC50 96 h 1.0 - 10.0 mg/L Brachydanio rerio static	-
1,2-Propanediol 57-55-6	EC50 96 h = 19000 mg/L Pseudokirchneriella subcapitata	LC50 96 h = 51600 mg/L Oncorhynchus mykiss static LC50 96 h 41 - 47 mL/L Oncorhynchus mykiss static LC50 96 h = 51400 mg/L Pimephales promelas static LC50 96 h = 710 mg/L Pimephales promelas	EC50 48 h > 1000 mg/L Daphnia magna Static EC50 24 h > 10000 mg/L Daphnia magna
Lauryl Alcohol 112-53-8	EC50 96 h = 0.62 mg/L Desmodesmus subspicatus	LC50 96 h = 1.01 mg/L Pimephales promelas flow-through LC50 96 h = 0.1855 mg/L Pimephales promelas	EC50 48 h = 320 mg/L Daphnia magna

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	
<u>13.1. Waste Treatment Methods</u> 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
<u>MEX</u>	NOT REGULATED
ICAO (air)	NOT REGULATED
IATA	NOT REGULATED
<u>IMDG</u>	NOT REGULATED

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15. Regulatory Information 15.1. International Inventories TSCA Complies DSL/NDSL Does not comply ENCS Complies Complies **IECSC** Complies KECL Complies PICCS Complies AICS

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



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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

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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

U.S. State Right-to-Know Regulations

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

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

25-May-2015

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

Revision date Revision note No information available Disclaimer

<u>Disclaimer</u> 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