

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 cher	nical and restrictions on use
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

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.



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)

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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 Effects, Both Acute and DelayedSymptomsNo 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 None known. Hazardous Combustion	the Chemical Carbon oxides, Nitrogen oxides (NOx), Oxides of sulfur
Products 5.4. Explosion Data	
Sensitivity to Mechanical Impac Sensitivity to Static Discharge	
5.5. Protective Equipment and Pred As in any fire, wear self-contained bre protective gear.	cautions for Firefighters athing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full
6. Accidental release measur	es
6.1 Personal precautions protecti	ve 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	<u>ainment and cleaning up</u> 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

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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
pHpHMelting point/freezing pointBoiling point / boiling rangeFlash PointEvaporation Rateflammability (solid, gas)Flammability limit in airUpper flammability limit:Lower flammability limit:Vapor PressureVapor DensitySpecific gravityWater SolubilitySolubility in Other SolventsPartition coefficientAutoignition Temperature	VALUES 7 No data available 100 °C / 212 °F > 100 °C / > 212 °F No data available No data availa	<u>Remarks • Method</u>	

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.

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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 EffectsSymptomsNo 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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<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

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

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



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TDGNOT REGULATEDMEXNOT REGULATEDICAO (air)NOT REGULATEDIATANOT REGULATEDIMDGNOT REGULATED

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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	Х	-	Х
57-55-6			

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

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