Company Logo

SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product:	**Silv-EX Plus Class A Foam Concentrate**
Product Use:	Fire Extinguishing Agent
Restriction of Use:	Refer to Section 15
New Zealand Supplier:	**Safeworld Limited**
Address:	17 Fairfax Avenue Penrose Auckland, 1061
Telephone:	+64 9 218 9403
Emergency No:	**0800 764 766 (National Poison Centre)**
Date of SDS Preparation:	7 November 2025

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Fire Fighting Chemicals – HSR002573

Pictograms

Signal Word: **DANGER**

GHS Category	Hazard Code	Hazard Statement
Skin irritation Cat. 2	H315	Causes skin irritation.
Serious eye damage Cat. 1	H318	Causes serious eye damage.

Prevention Code	Prevention Statement
P103	Read carefully and follow all instructions.
P264	Wash hands thoroughly after handling.
P280	Wear protective clothing as detailed in SDS Section 8.

Response Code	Response Statement
P310	Immediately call a POISON CENTER or doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362+P364	Take off contaminated clothing and wash before reuse.

Storage Code	Storage Statement
None Allocated	

Disposal Code	Disposal Statement

P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Proprietary mixture consisting of high foaming hydrocarbon surfactants, solvents, higher alcohols, and water	100%	Proprietary

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes — Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

If on Skin — Take off contaminated clothing and wash before reuse. Wash skin with plenty of water. If skin irritation occurs: Get medical advice/ attention.

If Swallowed — Rinse mouth and drink plenty of water. Never give anything to the mouth of an unconscious person. Seek medical attention if needed.

If Inhaled — Remove person to fresh air. Allow person to assume most comfortable position and keep warm. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms: Causes serious eye damage. Causes skin irritation.

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from combustion products	None known.
Suitable Extinguishing media	This preparation is an extinguishing media. There are NO extinguishing media which must not be used for safety reasons.
Precautions for firefighters and special protective clothing	NO special protective equipment is needed for fire-fighters.
HAZCHEM CODE	**None Allocated**

Section 6. Accidental Release Measures

For emergency responders:

Wear protective equipment as detailed in Section 8. Avoid contact with skin and eyes.

Environmental precautions:

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up:

Use an absorbent material such as diatomaceous earth, sawdust, etc., and sweep up. Dispose of as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Wash hands thoroughly after handling.

- Wear protective clothing as detailed in SDS Section 8.

Precautions for Storage:

- NO special conditions are needed for safe storage.
- Store in original container.
- Keep tightly closed until used.
- As much as possible, keep from being washed into surface waters.
- Store away from incompatible materials listed in Section 10.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	TWA mg/m³	STEL ppm	STEL mg/m³

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices Feb 2025 15TH EDITION.

Engineering Controls

None expected to be needed. Mechanical ventilation is recommended.

Personal Protection Equipment

Eyes	Chemical goggles are recommended.
Skin	Use chemical resistant gloves when handling the preparation.
Respiratory	In case of insufficient ventilation, wear suitable respiratory equipment Wear a respirator conforming to EN 140 with Type A filter or better
General Hygiene	As much as possible, keep from being washed into surface waters.

Section 9 Physical and Chemical Properties

Appearance	Clear Liquid
Colour	Light Amber
Odour	Mild sweet odour
Odour Threshold	Not available
pH	7 – 8.5
Boiling Point	> 100 °C
Melting/Freezing Point	Not available
Flash Point	> 93 °C PMCC
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density	1.020 g/ml ± 0.020
Water Solubility	Completely soluble Not soluble in fat
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available

Decomposition Temperature	Not available
Viscosity	9-15 Cs
Evaporation Rate	Butyl acetate = 1): Approx. 0.005

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to Avoid	None known.
Incompatible Materials	Reactive metals, electrically energized equipment, any material reactive with water, or strong oxidizers.
Hazardous Decomposition Products	Not known, however, carbon monoxide and oxides of nitrogen and sulfur may be produced during fire conditions. Hydrogen sulfide may be produced during bacterial decomposition under anaerobic conditions.

Section 11 Toxicological Information

Acute Effects:

Swallowed	This product is not classified as acutely toxic. Oral (rat) LD50 > 5050 mg/kg.
Dermal	This product is not classified as acutely toxic. Dermal (rabbit) LD50 > 2020 mg/kg.
Inhalation	This product is not classified as acutely toxic.
Eye	Causes serious eye damage.
Skin	Causes skin irritation.

Chronic Effects:

Carcinogenicity	This product is not classified as carcinogenic.
Reproductive Toxicity	This product is not classified as toxic for reproduction.
Germ Cell Mutagenicity	This product is not classified as mutagenic.
Aspiration	This product is not classified as Asp Tox.
STOT/SE	This product is not classified as STOT SE.
STOT/RE	This product is not classified as STOT RE.

Section 12. Ecotoxicological Information

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Ecotoxicity:
Fish, Oncorhynchus mykiss: LC50 (96 hrs) 56.6 mg/L.
Gasterosteus aculeatus: LC50 (96 hrs) 7.31 mg/L.
Daphnids, Daphnia magna: LC50 (48 hrs) 62.7 mg/L.

Product:	
Persistence and degradability	Readily biodegradable Concentrate: COD = 595,349 mg/L BOD20 = 300,000 mg/L. 1% solution: COD = 5302 mg/L. BOD20 = 4350 mg/L.
Bioaccumulation	Does not bioaccumulate.
Mobility in Soil	No data available
Other adverse effects	Ozone depletion potential: None.

	Photochemical ozone creation potential: None. Global warming potential: None.

Section 13. Disposal Considerations

Disposal Method:
Dispose as per Local Regulations.
Precautions or methods to avoid: As much as possible, keep from being washed into surface waters

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Fire Fighting Chemicals – HSR002573

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L
Emergency Response Plan	10 000L
Secondary Containment	10 000L
Restriction of Use	Only use for the intended purpose.

Section 16 Other Information

Glossary

Cat	Category
EC_{50}	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC_{50}	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD_{50}	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Feb 2025 15th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, if further information is required.

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