



SAFETY DATA SHEET

PRODUCT NAME **SILV-EX PLUS CLASS A FOAM CONCENTRATE**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name WORMALD NZ LTD

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Onehunga
Auckland 1061

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New Lynn
Auckland 0640

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Emergency 0800 243 622 [CHEMCALL]

Synonym(s) SILV-EX PLUS Class A Foam Concentrate

Use(s) FIRE EXTINGUISHING AGENT • FIRE FIGHTING

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO HAZARDOUS SUBSTANCES (CLASSIFICATION) REGULATIONS 2001

HSNO CLASSIFICATIONS

6.3B Substances that are mildly irritating to the skin,

6.4A Substances that are irritating to the eye,

9.1D Substances that are slightly harmful to the aquatic environment

FOR HUMANS:

Product:

EU Classification: Xi Irritant.

R Phrases: 38 Irritating to skin.

41 Risk of serious damage to eyes.

S Phrases 03 Keep in a cool place.

15 Keep away from heat.

21 When using, do not smoke.

25 Avoid contact with eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

35 This material and its container must be disposed of in a safe way.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Neither this preparation nor the components contained in it have been listed as carcinogenic by National Toxicology Program, IARC, or OSHA.

AS PART OF GOOD INDUSTRIAL AND PERSONAL HYGIENE AND SAFETY PROCEDURE, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes, and clothing.

SIGNS AND SYMPTOMS:

Acute Exposure:

Eye Contact: May cause mild to moderate transient irritation.

Skin Contact: May cause mild transient irritation and/or dermatitis.

Inhalation: Not an expected route of entry.

Ingestion: Irritating to mucous membranes. Large oral doses could produce narcosis.
Chronic Overexposure: Possible problems with kidneys, lungs, gastrointestinal, spleen, behavioral (sleep, motor, headache), lungs, gastrointestinal, liver, endocrine, blood, developmental.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Diseases of the kidney and liver.
FOR ENVIRONMENT:
As much as possible, keep from being washed into surface waters. See Heading 12

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name: Proprietary mixture consisting of high foaming hydrocarbon surfactants, solvents, higher alcohols, and water. Not otherwise specified.

Chemical Formula: N/A – This is a mixture/preparation.

CAS No.: N/A – This is a mixture/preparation.

EINECS Number: N/A – This is a mixture/preparation.

Concentration, Wt %: 100 %.

Hazard Identification: See Heading 3

4. FIRST AID MEASURES

Eye	Flush with water for a minimum of 15 minutes while holding lid open. If irritation persists, seek medical attention.
Inhalation	Remove from exposure. If irritation persists, seek medical attention.
Skin	Wash affected area with soap and water. If irritation persists, seek medical attention.
Ingestion	If the patient is conscious, dilute by drinking large quantities of water.

5. FIRE FIGHTING MEASURES

This preparation is an extinguishing media.
There are NO extinguishing media which must not be used for safety reasons.
NO special protective equipment is needed for fire-fighters.

6. ACCIDENTAL RELEASE MEASURES

For personal protection: Prevent skin and eye contact, see Heading 8.
Clean up: Use an absorbent material such as diatomaceous earth, sawdust, etc., and sweep up, see Heading 13.
As much as possible, keep from being washed into surface waters. See Heading 12.

7. STORAGE AND HANDLING

Storage	NO special conditions are needed for safe storage. See incompatibility information in Heading 10. Store in original container. Keep tightly closed until used. As much as possible, keep from being washed into surface waters.
Handling	Care should be taken in handling all chemical substances and preparations. See incompatibility information in Heading 10.
Specific Use	The intended or recommended use of this preparation is as a FIRE EXTINGUISHING AGENT.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection	None expected to be needed. Mechanical ventilation is recommended.
Hand Protection	Use chemical resistant gloves when handling the preparation.
Eye Protection	Chemical goggles are recommended
Skin Protection	Standard fire fighting safety equipment should provide all protection which is necessary.

Environmental Exposure controls As much as possible, keep from being washed into surface waters. See Heading 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	LIGHT AMBER, CLEAR LIQUID	Solubility (water)	COMPLETELY SOLUBLE
		Solubility (fat)	NOT SOLUBLE
Odour	MILD, SWEET ODOR	Oxidizing Properties	NOT AN OXIDIZER
pH	7.0 to 8.5	Volatiles	NOT AVAILABLE
Vapour Pressure	NOT AVAILABLE	Flammability (Solid/gas)	NON FLAMMABLE
Vapour Density	(Air = 1): Not determined, but < 1	Flash Point	> 93 °C PMCC
Boiling Point	> 100 °C	Upper Explosion Limit	NOT RELEVANT
Melting Point		Lower Explosion Limit	NOT RELEVANT
Evaporation Rate	Butyl acetate = 1): Approx. 0.005	Autoignition Temperature	NOT AVAILABLE
Density	1.020 g/ml ± 0.020	Viscosity	9-15 Cs
Partition coefficient, n-octanol/water:	Not determined.		
Other information	Auto-ignition temperature: Does not ignite.		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended conditions of storage
Conditions Avoid to	there are NO known conditions such as temperature, pressure, light, shock, etc., which may cause a dangerous reaction.
Material to Avoid	Reactive metals, electrically energized equipment, any material reactive with water, or strong oxidizers
Decomposition	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.
Polymerization	Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Product:

Toxicity Data: Oral (rat) LD₅₀ > 5050 mg/kg.

Dermal (rabbit) LD₅₀ > 2020 mg/kg.

Irritation Data: Eye (rabbit) Mildly irritating.

Skin (rabbit) Draize test Non-irritating (no erythema or edema).

12. ECOLOGICAL INFORMATION

Ecotoxicity: Product:	Fish, <i>Oncorhynchus mykiss</i> : LC ₅₀ (96 hrs) 56.6 mg/L. Gasterosteus aculeatus: LC ₅₀ (96 hrs) 7.31 mg/L. Daphnids, <i>Daphnia magna</i> : LC ₅₀ (48 hrs) 62.7 mg/L.
Persistence and degradability	Readily biodegradable concentrate: COD = 595,349 mg/L BOD ₂₀ = 300,000 mg/L. 1% solution: COD = 5302 mg/L. BOD ₂₀ = 4350 mg/L.
Bioaccumulative Potential	Does not bioaccumulate.
Other adverse effects	Ozone depletion potential: None. Photochemical ozone creation potential: None. Global warming potential: None.

13. DISPOSAL CONSIDERATIONS

As much as possible, keep from being washed into surface waters. See Heading 12.
Dispose of in accordance with Paragraph 15 of the Group Standard.

14. TRANSPORT INFORMATION

Hazard Class or Division: Not hazardous.
For additional transport information, contact Ansul Incorporated.
As much as possible, keep from being washed into surface waters. See Heading 12

15. REGULATORY INFORMATION

HSNO Approval

HSR002573 Fire Fighting Chemicals Group Standard

EU	Classification: Xi Irritant.
R	Phrases: 38 Irritating to skin.
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26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
35	This material and its container must be disposed of in a safe way.
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

EPA TSCA Status All components are included in TSCA inventories or are exempt from listing.
Canadian DSL (Domestic Substances List): All components are included in the DSL or are exempt from listing.
Environmental restrictions: None are known.
Restrictions on Marketing and Use: None are known.

Refer to any other national measures that may be relevant

16. OTHER INFORMATION

Format is from directive 2001/58/EC.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ANSUL SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

(WHMIS) CANADIAN WORKPLACE HAZARDOUS MATERIAL

IDENTIFICATION SYSTEM RATINGS:

This product is rated **D2B – Product may irritate eyes, skin or mucous membranes.**

(HMIS) HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:

HEALTH: 1 4. Severe Hazard

FLAMMABILITY: 0 3. Serious Hazard

REACTIVITY: 0 2. Moderate Hazard

1. Slight Hazard

0. Minimal Hazard