

Date of issue: 20 January 2023
Revised by: Simonne Moses - HSNO Consultant SDS No: 1

Safety Data Sheet

Water Type Fire Extinguisher with F-500 Encapsulator Agent

Classified as: Not a hazardous substance according to the EPA Hazardous Substances (Hazard Classifications) Notice 2020.

Section 1: SUBSTANCE AND SUPPLIER DETAILS

Product Name: Water Type Fire Extinguisher with F-500 Encapsulator Agent

Other Names: FS4LF500, FS9LF500

Supplier: Landlogic Ltd
25 John Morten Place
Rolleston 7614
New Zealand

Phone: +64 3 344 0006

Recommended Use: Fire extinguisher

In Case of Emergency Contact:

CHEMCALL: 0800 CHEMCALL (0800 243 622)

Section 2: HAZARDS IDENTIFICATION

This product is classified as a Dangerous Good for Transport.

This product is not classified as a hazardous substance according to criteria in the EPA Hazardous Substances (Hazard Classifications) Notice 2020.

Contents of extinguisher are non-hazardous, refer to Section 3. When transported in a stored pressure or cartridge type fire extinguisher, the fire extinguisher is considered a class 2.2 hazard. Refer to Section 14.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixture: Mixture of 3% F-500 Encapsulating Agent and 97% water. Does not contain PFOS, PFOA, or fluorine ingredients.

Main Component	CAS Number	Concentration (% wt)
Fatty alkyl ethers reaction products with aliphatic acids	72245-02-4	1.2 – 1.5%
Alcohols C6-12	68603-15-6	0.15 – 0.24%
2,2',2''-Nitrilotrisethanol aliphatic acid soap	38584-87-1	0.06 – 0.12%

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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4: FIRST AID MEASURES

Workplace Facilities Required: Standard hygiene facilities should be provided.

If Inhaled: Remove to fresh air. Seek medical attention if symptoms develop.

In Contact with Eye: Hold eyes open, flush continuously with water for at least 15 minutes. Seek medical attention if symptoms develop.

In Contact with Skin: Not expected to cause adverse effects. Wash skin with water.

If Swallowed: Not an expected route of exposure.

Advice to Doctor: Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Fire/Explosion Hazard: Product is a fire extinguisher and is not flammable or combustible. However, contents are under pressure and fire extinguisher may rupture or burst if exposed to high heat.

Suitable Extinguishing Media: Use extinguishing agent suitable for surrounding fire.

Precautions in Connection with Fire: Move unused extinguishers from path of fire if safe to do so to avoid fire damage.

Advice for firefighters: Wear full firefighting gear and self-contained breathing apparatus.

Section 6: ACCIDENTAL RELEASE MEASURES

Precautions: Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area.

Suitable Protective Equipment: Avoid contact with pressurised contents. Protect face and eyes.

Spill or Leak Procedures. Leaking containers may be taken to a safe area and allowed to discharge to atmosphere.

Waste Disposal Methods: Dispose of as per Section 13.

Emergency preparation: Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Protect the extinguisher from damage. Do not point extinguisher into eyes or face as pressurised contents may cause physical damage. Wash hands after use and before eating, drinking, or smoking.
Storage:	Extinguishers should be properly mounted and restrained.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Standards NZ:	No Workplace Exposure Standards have been established for this product.
Engineering Controls:	Standard hygiene facilities, e.g. hand washing facilities, should be provided in the work area.
Personal Protective Equipment:	Avoid contact with eyes.
Hand protection:	Protective gloves may be worn when discharging. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.
Skin and body protection:	Use protective clothing. Remove any contaminated clothing to avoid prolonged contact with the skin. Wash work clothes regularly. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.
Eye protection:	Use chemical safety glasses with side shields or safety goggles to protect eyes. Refer to AS/NZS 1336 for suitable eye and face protection.
Respiratory protection:	Not normally required.
Other information:	PPE selected must be impervious to the substance. Do not eat, smoke, or drink where material is handled, processed, or stored. Wash hands carefully before eating, drinking, or smoking. Handle in accordance with safe industrial hygiene practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Description:	Fire extinguisher	Colour:	Red
Odour:	Not applicable	Odour Threshold:	Not applicable
pH:	Not applicable	Solubility:	Not applicable
Freezing point:	Not applicable	Boiling Point:	Not applicable
Flammability:	Not applicable	Flash Point:	Not applicable
LEL/UEL:	Not applicable	Vapour Pressure:	Not applicable
Decomposition Temp:	Not applicable	Autoignition Temp:	Not applicable
Relative Density:	Not applicable	Vapour Density:	Not applicable
Partition Coefficient: n-octanol/water	Not applicable	Viscosity:	Not applicable
Particle characteristics:	Not applicable		

Section 10: STABILITY AND REACTIVITY

Stability:	Stable under normal cool, dry storage conditions.
Reactivity:	Not reactive under normal conditions of use.
Conditions to Avoid:	None identified.
Incompatibility:	None identified.
Hazardous Decomposition:	None identified.

Section 11: TOXICOLOGICAL INFORMATION

Acute Exposure

Acute Toxicity:	LD ₅₀ oral > 2000 mg/kg LD ₅₀ dermal > 2000 mg/kg LC ₅₀ inhalation > 5 mg/L (mist)
Inhalation:	Not expected to cause adverse effects when used as intended.
Ingestion:	Not an expected route of exposure.
Skin Contact:	Not expected to cause adverse effects when used as intended.
Eye Contact:	Not expected to cause adverse effects when used as intended. Direct exposure of discharged extinguishant to eyes may cause physical damage.
Sensitiser:	Not expected to be a respiratory or contact sensitiser.

Chronic Exposure:

Mutagen/Carcinogen/Reproductive Toxicant	No chronic toxicity effects expected.
Specific Target Organ Systemic Toxicity:	No effects expected.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Not expected to cause adverse effects.
Persistence/degradability:	Expected to be readily biodegradable.
Bioaccumulation:	Not expected to bioaccumulate.
Mobility:	Fire extinguishing agent is readily soluble in water. Ecotoxicity data is based on hazardous ingredient information.

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Section 13: DISPOSAL CONSIDERATIONS

Disposal: Dispose of unused fire extinguishers via an approved waste disposal contractor.
Disposal of Packaging: Dispose of empty fire extinguishers via an approved waste disposal contractor.

Section 14: TRANSPORT INFORMATION

Classified as a Dangerous Good for transport in accordance with NZS5433:2020, IMDG or IATA.

UN Number: UN1044
Proper Shipping Name: Fire extinguishers with compressed or liquefied gas
Class: 2.2
Environmentally hazardous: No

Ensure transportation methods prevent leakage from packages and collapsing loads.

Section 15: REGULATORY INFORMATION

Group Standard Allocation: Not applicable
HSNO Approval Code: Not applicable
Classifications: None
NZS4503:2005: Fire extinguishers must be maintained in accordance with NZ Standard 4503:2005 Hand operated firefighting equipment.

Section 16: OTHER INFORMATION

The information provided in this Safety Data Sheet relates only to the specific material designated herein. This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.

All reasonable care has been taken to ensure that the information and advice contained herein are from sources believed to be reliable and to represent the most up-to-date knowledge available at the date given in Section 16. No liability is assumed for any damages related to the use or misuse of this product.

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore, this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

SDS Issued: 20/01/2023

Reason for Revision: Update to New Zealand regulatory requirements.

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References:

EPA NZ Chemical Classification and Information Database
European Chemical Agencies Database
EPA Guide: Assigning a Hazardous Substance to a Group Standard, 2014
Supplier SDS: Firestryker Australasia, Water Type Fire Extinguisher with F-500 Encapsulator Agent

END OF SAFETY DATA SHEET