

FX FIRE 500ml LITH-SAFE AEROSOL EXTINGUISHER DELTA500

SECTION 1:	Identification of the substance/mixture and of the company/undertaking	2
SECTION 2:	Hazards identification	2
SECTION 3:	Composition/information on ingredients	3
SECTION 4:	First aid measures	3
SECTION 5:	Firefighting measures	4
SECTION 6:	Accidental release measures	4
SECTION 7:	Handling and storage	5
SECTION 8:	Exposure controls/personal protection	5
SECTION 9:	Physical and chemical properties	6
SECTION 10:	Stability and reactivity	6
SECTION 11:	Toxicological information	7
SECTION 12:	Ecological information	7
SECTION 13:	Disposal considerations	7
SECTION 14:	Transport information	8
SECTION 15:	Regulatory information	8
SECTION 16:	Other information	9





SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier	
	Product name:	DELTA500 - 500ml LITH-SAFE AEROSOL EXTINGUISHER
	Substance:	The product is not classified according to the CLP/REACH regulations as it is defined
	EC No.:	
		as an article. Not Applicable
	REACH Registration: CAS No.:	Not Applicable
		Not Applicable
2.		s of the substance or mixture and uses advised against
	Identified uses:	
		ol for Lithium Battery Fires and Class A fires.
	Uses advised against a	
		hium, Sodium, Potassium, et al.) as the aqueous phase will aggravate the
	fire.	
3.		of the safety data sheet
	Supplier:	FX Fire & Safety Solutions Ltd.
	Address:	Unit 3 Belvedere Business Park, Crabtree Manorway South
	Postcode / Country:	DA17 6AH / UK
	Telephone:	+44 (0) 208 310 3950
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	National Contact:	UKREACHCA@hse.gov.uk
4.	Emergency telephone	number
	Contact:	+44 (0) 208 310 3950
	Language:	English
	Opening hours:	Available Monday to Friday (not bank-holidays), 0800hrs to 1700hrs (GMT)
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SECTION 2: Hazards identification

	Hazard Class	Hazard Category	Hazard Statement			
	Aerosol	3	H229 – Pressurised container: may burst if heated.			
.2	Additional Inform	nation		_		
	Label elements Labelling accord Hazard Pictogram None Signal word Warning Hazard statemen H229 Precautionary sta	nt(s) Pressurized contain	to 1272/2008 [CLP]: er: may burst if heated.			
	P410 + 412Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.P210Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.P102Keep out of reach of children.					
	Supplemental H Not Applicable	azard Information				
3	Other hazards The contents of	this aerosol do not m	eet the criteria for PBT or vPvB according to Annex XII	II of the REACH regulations.		
	01/01/2025					



SECTION 3: Composition/information on ingredients

Mixtures					
Chemical Name	EC No.	CAS No.	% Weight	REACH Registration No.	CLP classification according to Regulation (EC) 1272/2008
Vermiculite Dispersion	406-060-8	110638-71-6	79.2 ±1.8	Exempt in accordance with Annex V.7	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Nitrogen	231-783-9	7727-37-9	0.549 ±0.012	Exempt in accordance with Annex IV	Aerosol Category 3 H229 – Pressurized container: may burst if heated
Helium	231-168-5	7440-59-7	0.00413 ±0.00009	Exempt in accordance with Annex IV	Aerosol Category 3 H229 – Pressurized container: may burst if heated

SECTION 4: First aid measures

1.	Description of first aid measures
1.	General Information: No serious adverse effects are anticipated. If seeking medical advice - show this data sheet to the medical professional.
2.	Following inhalation: If large quantities of aerosol contents are inhaled, remove any exposed person(s) to fresh air, keep warm and at rest. If breathing problems occur administer oxygen or CPR as appropriate. Seek immediate medical attention.
3.	Following skin contact: This material is considered harmless; however, if irritation occurs then wash affected skin with plenty of water. Get medical attention if irritation persists after washing.
4.	Following eye contact: Immediately flush with clean water or eye wash solution, holding the eyelids apart. Seek medical attention if redness, irritation or pain persists.
5.	Following ingestion: There are no known adverse effects for small quantities and hence first aid measures are not usually required. For larger quantities, wash mouth out with water and give water to drink. Do not induce vomiting. If gastrointestinal symptoms occur then seek medical advice.
6.	Self-protection of the first aider: Wear gloves to protect against skin irritation.
2.	Most important symptoms and effects, both acute and delayed
1.	General information: Significant acute or delayed effects are not anticipated.
2.	Symptoms and effects: Aerosol spray from this product may cause irritation to eyes, nose or throat.
3.	Indication of any immediate medical attention and special treatment needed
1.	Specific treatment: Treat symptomatically.
2.	Notes for the doctor: No special antidote required.

V1.1 - 01/01/2025









3



4.2.2 Symptoms and effects:

- Aerosol spray from this product may cause irritation to eyes, nose or throat.
- 3. Indication of any immediate medical attention and special treatment needed
- 1. Specific treatment:
- Treat symptomatically.
- 2. Notes for the doctor:
- No special antidote required.

SECTION 5: Firefighting measures

- 1. Extinguishing media
- 1. General information:
- Non-combustible substance; however, packaging and surrounding materials may be combustible.
- 2. Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire. AVD aerosols are suitable for use on Class A fires.
- 3. Unsuitable extinguishing media: No product-specific restrictions.
- 2. Special hazards arising from the substance or mixture
- General information: Cool any aerosol containers at risk. Dispose of contaminated extinction water according to official regulations.
- 2. Hazardous combustion products: Not applicable – non-combustible substance.
- 3. Advice for firefighters No specific fire fighting equipment is required.

SECTION 6: Accidental release measures

1.	Personal precautions, protective equipment and emergency procedures
1.	For non-emergency personnel: Use personal protective equipment (Section 8) to protect eyes, skin and clothing.
2.	For emergency responders:
	Use personal protective equipment, see Section 8.
2.	Environmental precautions Prevent large quantities of product from entering drains, sewers or watercourses. Protect from wind to prevent airborne dust creation.
3.	Methods and material for containment and cleaning up
1.	For containment: Clean up spillages promptly to prevent dispersal by local traffic. Contain spilled aerosol contents by damming with an absorbent, non-combustible material (e.g. vermiculite granules, universal binding agent, sand, diatomaceous earth).
2.	For cleaning up: Absorb spillages with an absorbent, non-combustible material (e.g. vermiculite granules, universal binding agent, sand, diatomaceous earth), sweep up and shovel.
3.	Disposal and other information: Dispose of in compliance with local and national regulations.
4.	Reference to other sections Suitable personal protective equipment is quoted in Section 8. Further information on waste and disposal is given in Section 13.

V1.1 - 01/01/2025









SECTION 7: Handling and storage

1.	Precautions for safe handling
1.	Protective Measures: Ensure adequate ventilation when spraying. Observe directions on label and instructions for use. Use working methods according to operating instructions. The extinguishing agent in its dried form is classed as an irritant and appropriate respiratory protection should be worn. Wear appropriate personal protective equipment (see Section 8).
2.	Measures to prevent fire: This product is non-flammable; no special fire protection measures are necessary.
3.	Measures to prevent aerosol and dust generation: Where aerosol mist or mechanically generated dust from dried aerosol contents may be generated, use engineering measures (e.g. local dust extraction) to provide effective dust control in order to ensure compliance with the current Occupational Exposure Limits.
4.	Measures to protect the environment: Avoid disposal of aerosol contents or spillages into the drains as the alkaline binders may affect the pH of the water.
5.	Advice on general occupational hygiene: Wash hands after use and regularly during use especially if exposed to aerosol contents. In working areas do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas. Avoid contact with aerosol contents by skin, eyes and clothing. Wash clothing before reuse
2.	Conditions for storage, including any incompatibilities
1.	Technical measures and storage conditions: Protect aerosol cans from damage.
2.	Requirements for storage rooms and vessels: Store in a dry place. Store between 5 °C and 25 °C, where possible. Do not store at temperatures below 0 °C or over 50 °C. Do not freeze. Product will not operate if frozen. Store away from UV sunlight and external temperature variations. Observe applicable local regulations for storage of aerosols.
3.	Further information on storage: None.
7.3	Specific end use(s) Recommendations: No data available.

SECTION 8: Exposure controls/personal protection

	Chemical Nam	e CAS No.	Workplace Exposure Limit (EH40/2005)			
	Vermiculite	1318-00-9	Substance not listed in EH40/2005 For WELs, treat as nuisance dust (section 44) 10 mg m-3 (Inhalable dust) / 4 mg m-3 (Respirable dust)			
2.	Exposure controls					
1.	Appropriate engine					
1.	Appropriate engine					
2.	Individual protection measures:					
	Hands:Protective gloves if required and wash hands at the end of each workEyes:session. Goggles or mask – no specific type recommended.					
1 -	01/01/2025					



Skin: Respiratory:

General:

For workers who suffer from dermatitis or sensitive skin, gloves and overalls are recommended. In cases of prolonged exposure to airborne dust or aerosol mists, wear respiratory protective equipment that complies with European or national legislation i.e. Type FFP2. Protective overalls. Soiled clothing must be adequately laundered to avoid becoming a dust source.

8.2.3 Environmental exposure controls:

Use appropriate engineering controls to prevent dust escaping to the atmosphere.

SECTION 9: Physical and chemical properties

	Appearance:	AVD(Li) Gold / brown suspension.
b)	Odour:	AVD(Li) Slight earthy smell
c)	Odour threshold:	No data available
d)	pH:	AVD (Li) 7 to 10
e)	Melting point/freezing point;	AVD(Li) Freezing point ~0 °C (water)
f)	Initial boiling point and boiling range:	AVD(Li) Boiling point ~100 °C (water)
g) h)	Flash point:	Not applicable – Not flammable
	Evaporation rate:	No data available
i)	Flammability (solid, gas):	Not flammable
j)	Upper/lower flammability or explosive limits:	No data available
k)	Vapour pressure:	No data available No data available
I) _	Vapour density:	
m)	Relative density:	AVD(Li) 1.1 g cm-3
n)	Solubility(ies):	AVD(Li) is miscible with water.
0)	Partition coefficient: n-octanol/water:	No data available
p)	Auto-ignition temperature:	No data available No data available
q)	Decomposition temperature:	AVD(Li) <500 cP - Brookfield viscosity [Sp3, 100 rpm]
r)	Viscosity:	
s)	Explosive properties:	Not explosive No data available
t)	Oxidising properties:	INO data available

SECTION 10: Stability and reactivity

1.	Reactivity Contents are not likely to react adversely if stored and handled as recommended.
2.	Chemical stability Chemically stable with proper handling.
3.	Possibility of hazardous reactions If used as recommended no hazardous reactions are to be expected.
4.	Conditions to avoid See also section 7. Pressure increase will result in danger of container bursting. Pressurised container: Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.
5.	Incompatible materials No data available.
6.	Hazardous decomposition products No data available.

V1.1 - 01/01/2025







6



SECTION 11: Toxicological information

	a)	Acute Toxicity
		Classification criteria are not met.
	b)	Skin corrosion/irritation
		No known hazards. Irritation is not anticipated.
	c)	Serious eye damage/irritation
		Mechanically generated particulate matter may cause irritation.
	d)	Respiratory or skin sensitisation
		Dust or aerosol mist may cause minor transient respiratory irritation at high concentrations.
	e)	Germ cell mutagenicity
		No known hazards.
	f)	Carcinogenicity
		No known hazards
	g)	Reproductive toxicity
	-	No known hazards
	h)	STOT-single exposure
		No known hazards.
	i)	STOT-repeated exposure
		No known hazards.
	j)	Aspiration hazard
		No known hazards.
2.	Info	rmation on likely routes of exposure
		most likely route for exposure is via skin contact or inhalation of aerosol mist.
3.		er information
5.	Nor	

SECTION 12: Ecological information

1.	Toxicity No data available
2.	Persistence and degradability No data available.
3.	Bioaccumulative potential No data available.
4.	Mobility in soil No data available.
5.	Results of PBT and vPvB assessment PBT / vPvB assessment not available as chemical safety assessment not required / not conducted. No components are included in the EU candidate list of substances of very high concern (SVHCs).
6.	Other adverse effects By intended use and observance of regulations / advices for storage and handling no adverse effects are expected.

SECTION 13: Disposal considerations





SECTION 14: Transport information

1.	UN number 1950.	
2.	UN proper shipping nar Road - ADR: Aeros - RID: Aeros Sea - IMDG: Aeros Air - IATA: Aeros	sols Rail sols sols
3.	Transport hazard class(e Road - ADR: Classification Code: LQ (ADR 2017): Tunnel Restriction: Rail - RID: Sea - IMDG: EmS: Marine Pollutant: Air - IATA:	s) 2.2 5A 1 litre E 2.2 2.2 F-D, S-U are assigned to UN1950. However, the product is non-flammable, non-toxic and non-corrosive. Not Applicable 2.2.
4.	Packing group Not classified.	
5.	Environmental hazards Not classified.	
6.	Special precautions for Not applicable.	user
7.	Transport in bulk accord Not applicable.	ling to Annex II of Marpol and the IBC Code

SECTION 15: Regulatory information

REGULATIONS
Regulation (EC) No. 2037/2000 (substances that deplete ozone) Not applicable
Regulation (EC) No. 850/2004 (persistent organic pollutants) Not applicable
Regulation (EC) No.689/2008 (concerning the export and import of dangerous chemicals) Not applicable
Regulation (EC) No. 1272/2008 (Classification, Labelling and Packaging of substances and mixtures) This material does not meet any of the criteria. Lith-ex Aerosols are classed as an 'Article' and do not contain any substances listed on the candidate list of Substances of Very High Concern.
Registration, Evaluation, Authorisation & Restriction of Chemicals (REACh) The mineral vermiculite is a naturally occurring product and, hence, article 2 (7) (b) and AnnexV paragraph 7 of the REACH regulations exempts this material from REACH registration.
US FEDERAL REGULATIONS Vermiculite is listed on the United States TSCA (Toxic Substances Control Act) inventory.
Source of Reference for OELs HSE EH40 for Workplace Exposure Limits



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15.2 Chemical safety assessment

No chemical safety assessment has been carried out by the supplier.

SECTION 16: Other information

 Abbreviations and acronyms WEL: 8 h TWA – Workplace Exposure Limit: 8-hour Time Weighted Average. UVCB – Unknown or Variable composition, Complex reaction products or of Biological materials. 		WEL: 8 h TWA – Workplace Exposure Limit: 8-hour Time Weighted Average.	
	ii.	 Key Literature References and Sources of Data a) Guidance Note EH40 Occupational Exposure Limits is published annually by the Health and Safety Executive. The latest relevant limits should be observed. b) HS(G) 37 1993 "An introduction to Local Exhaust Ventilation" and Guidance Note EH44 2013 "Dust in the Work Place" are both available from HM Stationery Office. c) Advice on respiratory protective equipment is also given in BS EN 529:200. d) EN166: 2002 Personal Eye Protection. e) Dupré Minerals Safety data sheets SDS D0156EN AVD and SDS D0157EN AVD-Li 	
	ii.	Procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 CLP This material is not classified under this regulation.	
	iv.	Training Advice All employees should be given adequate training in the proper use and handling of this product and any precautions and protective equipment required under applicable regulations	

The information given on this Safety Data Sheet is to the best of FX Fire & Safety's knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users' responsibility to satisfy themselves as to the suitability and completeness of the information for their own particular use.

V1.1 - 01/01/2025

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