

Safety Data Sheet (SDS)

according to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

FIREBLOCK LITHIUM



Issue Date:
2025/02/28

Version:
1

Report Number:
4225_1

Section 1 Identification of substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name	Fireblock lithium
Synonyms, Trade Names	None

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s)	Extinguishing lithium-ion battery fires Extinguish A-Class fires
Use advised against	None

1.3 Details of the supplier of the safety data sheet

Company Name	Scibalab (Pty) Ltd 6 Bloemfontein Road Paarden Eiland Cape Town 7420 South Africa
Phone	+27 21 418 0325
Website	http://www.sci-ba.co.za
Email	enquiries@sci-ba.co.za

1.4 Emergency telephone number

Country	Organisation / Company	Address	Emergency number
Ireland (Republic of)	National Poisons Information Centre (Beaumont Hospital)	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 837 9964
South Africa (Republic of)	Fireblock cc	352 Larsen Drive Muldersdrift Gauteng 1746 South Africa	+27 11 957 5010 (08:30-16:30)
United Kingdom	National Poisons Information Service	SE14 5ER London	+44 171 635 91 91 or 111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)

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Section 2 Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Physical Hazards None

Health Hazards None

Environmental Hazards None

2.1.2 Directive 67/548/EEC and Directive 1999/45/EC None

2.2 Label elements according to Regulation (EC) No. 1272/2008 (CLP)

Product Name	Fireblock Lithium
Hazard Pictogram(s)	None
Signal Word(s)	None
Hazard Statement(s)	None
Precautionary Statement(s)	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P331: Do NOT induce vomiting.
Supplemental hazard information	None

2.3 Other hazards

This product is not identified as a PBT/vPvB substance as per REACH criteria, Annex VIII.

Section 3 Composition/information on ingredients

3.2 Mixtures

Mixture		Classification	Concentration
Component			
Water		None	≥ 90%
CAS number	7732-18-5		
EC number	-		
EU Index number	-		
REACH registered number(s)	-		
Erioglucine disodium salt		None	<1%
CAS number	223-339-8		
EC number	-		

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EU Index number	-		
REACH registered number(s)	-		
Tartrazine			
CAS number	1934-21-0	None	<1%
EC number	-		
EU Index number	-		
REACH registered number(s)	-		
Potassium polyacrylate			
CAS number	25608-12-2	Eye Irrit. (Cat 2A)	<1%
EC number	-		
EU Index number	-		
REACH registered number(s)	-		

Section 4 First aid measures

4.1 Description of first aid measures

Skin contact	No hazards which require special first aid measures.
Eye contact	No hazards which require special first aid measures.
Ingestion	No hazards which require special first aid measures.
Inhalation	No hazards which require special first aid measures.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No special requirements. Treat symptomatically.

Section 5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Dry chemical, foam, carbon dioxide (CO ₂), water fog
Unsuitable extinguishing media	None

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	Nothing specific
Unusual fire & explosion hazards	Nothing specific

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Specific hazards	None
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5.3 Advice for fire-fighters

Special firefighting procedures	Nothing specific
Protective equipment for fire-fighters	Self-contained breathing apparatus and full protective clothing must be work in case of fire

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and repeated contact with skin. Wear protective clothing as described in Section 8 of this safety data sheet. If spilled, take caution, as material can cause surfaces to become slippery.

6.2 Environmental precautions

Nothing specific

6.3 Methods and material for containment and cleaning up

Rinse and scrub spillage area with excess water. Do not allow product to enter drains. Take caution as area may be slippery.

6.4 Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. See Section 13 for information on waste disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and repeated contact with skin. Read and follow manufacturer's recommendations. Wash hands after handling.

7.2 Conditions for safe storage, including any incompatibilities

When possible, store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from prolonged exposure to sunlight. Keep stored product away from children.

7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

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Section 8 Exposure controls/personal protection

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Substance	Control Parameters	Basis	Note
Fibreglass	No data available		
Erioglucine disodium salt	No data available		
Tartrazine	No data available		
Potassium polyacrylate	No data available		

8.1.2 Biological limit values

None

8.1.3 DNELs and PNECs

None

8.2 Exposure controls

Not required

8.3 Specific end use(s)

Hand protection	Hand protection not required.
Eye protection	Not relevant
Hygiene measures	Do not smoke in work area.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Gel
Colour	Green
Odour	None
Odour threshold	None
pH	7.1
Boiling Point/Range °C	1500°C
Melting Point/Range °C	0°C
Flash point °C	None
Evaporation rate	None
Flammability (solid, gas)	Not flammable
Flammability limits %: lower	Not applicable

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Flammability limits %: upper	Not applicable
Vapour pressure	Not applicable
Relative density	1.01 g/cm ³ (20°C)
Solubility in water	Partially soluble
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature °C	None
Decomposition temperature	None
Viscosity	29000cP-45000cP
Explosive properties	None
Oxidising properties	Not oxidising
Particle characteristics	Not applicable

9.2 Other information

No information available

Section 10 Stability and reactivity

10.1 Reactivity

Not reactive under normal temperature conditions and recommended use.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

Keep away from heat, ignition sources, oxidising agents and moisture during handling, transport and storage.

10.5 Incompatible materials

Materials to avoid Oxidising agents, reducing agents, nitric acid, peroxides, alkali.

10.6 Hazardous decomposition products

None

Section 11 Toxicological information

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11.1 Information on toxicological effects

Toxicity values	
Water	No data available
Erioglaurine disodium salt	Oral: LD50 Rat >1900 mg/kg
Tartrazine	Oral: LD50 Mouse 12750 mg/kg
Potassium polyacrylate	Oral: LD50 Rat >5000 mg/kg

Section 12 Ecological information

12.1 Toxicity

Aquatic Toxicity	
Water	No data available
Erioglaurine disodium salt	No data available
Tartrazine	No data available
Potassium polyacrylate	No data available

12.2 Persistence and degradability

Persistent and readily biodegradable

12.3 Bioaccumulative potentials

No information available.

12.4 Mobility in soil

Insoluble in water and expected low mobility

12.5 Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance

12.6 Other adverse effects

No information available

Section 13 Disposal Considerations

13.1 Disposal considerations

Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical.

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Section 14 Transport Information

14.1 UN Number

Land transport (ADR/RID)	Not regulated
Inland waterways transport (ADN)	Not regulated
Marine transport (IMDG)	Not regulated
Air transport (ICAO)	Not regulated

14.2 UN proper shipping name

Land transport (ADR/RID)	Not regulated
Inland waterways transport (ADN)	Not regulated
Marine transport (IMDG)	Not regulated
Air transport (ICAO)	Not regulated

14.3 Transport hazard class(es)

Land transport (ADR/RID)	Not regulated
Inland waterways transport (ADN)	Not regulated
Marine transport (IMDG)	Not regulated
Air transport (ICAO)	Not regulated

14.4 Packing group

Land transport (ADR/RID)	Not regulated
Inland waterways transport (ADN)	Not regulated
Marine transport (IMDG)	Not regulated
Air transport (ICAO)	Not regulated

14.5 Environmental hazards

Land transport (ADR/RID)	No
Inland waterways transport (ADN)	No
Marine transport (IMDG)	No
Air transport (ICAO)	No

14.6 Special precautions for user

Nothing specific

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant

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Section 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations	
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Text with EEA relevance)	
Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:	
None	
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance)	
Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Text with EEA relevance)	
Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)	
National Regulations	
The UK Clean Air Act 1993 applies	
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II and Regulation (EC) No. 1272/2008 (CLP)	
Approved Code of Practice	Classification and Labelling of Substances and Preparations Dangerous for Supply
Guidance Notes	Workplace Exposure Limits EH40

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16 Other information

Date of printing	24/02/2025
Date of issue	24/02/2025
Date of revision	Not applicable – first revision
Supersedes date	Not applicable – first revision

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Revision comments	Not applicable – first revision
Revision number	1
SDS No	4225_1
Other information	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010 * indicates text in the SDS which has changed since the last revision.
Laboratory Testing	Scibalab (Pty) Ltd (www.sci-ba.co.za)
Legend to abbreviations	PNEC = predicted no effect level DNEL = derived no effect level LD50 = median lethal dose LC50 = median lethal concentration EC50 = median effective concentration IC50 = median inhibitory concentration PBT = persistent, bioaccumulative and toxic substance vPvB = very persistent and very bioaccumulative substance.
Key literature references and sources for data:	Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other manufacturer's SDSs and other sources, as appropriate.
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