

# FIREBLOCK LITHIUM



## Safety Data Sheet (SDS)

Issue Date:  
2025/02/28

Version:  
1

Report Number:  
4225\_2

### Section 1 Product and Company Identification

<b>Product Name</b>	Fireblock Lithium
<b>Use</b>	Extinguishing lithium-ion battery fires Extinguish A-Class fires
<b>Restrictions on use</b>	None
<b>Supplier / Manufacturer</b>	Fireblock cc
<b>Address</b>	352 Larsen Drive Muldersdrift Gauteng 1746 South Africa
<b>Telephone number</b>	+27 11 957 5010
<b>E-mail</b>	<a href="mailto:admin@fireblock.co.za">admin@fireblock.co.za</a>
<b>SDS prepared by</b>	Scibalab (Pty) Ltd
<b>Telephone number</b>	+27 (0)21 418 0325
<b>Email address</b>	enquiries@sci-ba.co.za
<b>SDS preparation date</b>	24/02/2025

#### EMERGENCY TELEPHONE NUMBER

+27 11 957 5010 (08:30-16:30)

**Material Overview** The material consists of a green gel that is **stable** at room temperature, when **stored correctly**. The product can be **safely handled** with appropriate PPE and **safely transported** by truck, ship or plane.

### Section 2 Hazards Identified

<b>Human health</b>	None
Eyes	None
Skin	None
Inhalation	None
Effect of additional compounds formed	No additional compounds are foreseen to be formed.

<b>Hazard Statements</b>	<b>Physical</b>	<b>Health</b>	<b>Environmental</b>
	None	None	None
<b>Precautionary Statements</b>	<b>Prevention</b>	<b>Response</b>	<b>Storage/Disposal</b>
	None	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present	None

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and easy to do.

Continue rinsing.

P331: Do NOT

induce vomiting.

### Environmental effects\*

Acute Aquatic Toxicity (n/a)

Chronic Aquatic Toxicity (n/a)

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Specific hazard

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Personal Protection Equipment

Eye protection, gloves

### Signal Word

None

### Health Hazard Pictograms

None

## Section 3 Composition/Information on Ingredients

### Nature of Material

Mixture

Components	Formula	CAS number	EC Number	Conc. (% g/g)
Water	H <sub>2</sub> O	7732-18-5	-	>99%
Erioglaucine disodium salt	C <sub>37</sub> H <sub>34</sub> Na <sub>2</sub> N <sub>2</sub> O <sub>9</sub> S <sub>3</sub>	223-339-8	-	<1%
Tartrazine	C <sub>16</sub> H <sub>9</sub> N <sub>4</sub> Na <sub>3</sub> O <sub>9</sub> S <sub>2</sub>	1934-21-0	-	<1%
Potassium polyacrylate	C <sub>6</sub> H <sub>7</sub> KO <sub>4</sub>	25608-12-2	-	<1%

## Section 4 First-aid Measures

### Eyes

No hazards which require special first aid measures.

### Skin

No hazards which require special first aid measures.

### Inhalation

No hazards which require special first aid measures.

### Ingestion

No hazards which require special first aid measures.

### Notes to Physician

Treat symptomatically.

## Section 5 Fire Fighting Measures

### General Fire Hazards

Product is not flammable.

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<b>Suitable Extinguishing media</b>	Dry chemical, foam, carbon dioxide (CO <sub>2</sub> ), water fog
<b>Unsuitable extinguishing media</b>	For this substance/mixture no limitations of extinguishing agents are given.
<b>Hazardous Combustion products</b>	None
<b>Precautions for fire-fighters</b>	Complete regulatory protective equipment should always be worn including full-face, self-contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products and avoid creating dust.

## Section 6 Accidental Release Measures

<b>Personal precautions</b>	If spilled, take caution, as material can cause surfaces to become slippery
<b>Emergency procedure</b>	In case of spillage or fire, (1) evacuate personnel (if required) and secure/control entrance to area. (2) Inform appropriate safety personnel.
<b>Environmental precautions</b>	Nothing specific
<b>Clean-up Procedure</b>	
<b>Prohibited</b>	Nothing specific
<b>Recovery</b>	Absorb with appropriate absorbent.
<b>Cleaning/Decontamination</b>	Rinse and scrub spillage area with excess water. Do not allow product to enter drains. Take caution as area may be slippery.
<b>Disposal</b>	Dispose of properly as per Section 13.

## Section 7 Handling and Storage

<b>Handling Procedures</b>	
<b>Safe handling measures</b>	Avoid contact with eyes and repeated contact with skin. Read and follow manufacturer's recommendations. Wash hands after handling.
<b>Precautions for handling in wet conditions</b>	Nothing specific
<b>Hygiene measures</b>	Respect the general rules for occupational hygiene including removing contaminated clothing after exiting handling areas, washing after shift, do not eat, smoke or drink in areas where chemicals are being handled, processed or stored. Wash hands carefully before eating, smoking, drinking, applying cosmetics or using the toilet.
<b>Storage Procedures</b>	
<b>Recommended</b>	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.

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## Section 8 Exposure Controls and Personal Protection

**Engineering Controls** Nothing specific.

### OSHA exposure limit values (OEL)\*

Component	Type	Value	Form
<b>Material</b>			
Water (7732-18-5)		No data available	
Erioglaucine disodium salt (223-339-8)		No data available	
Tartrazine (1934-21-0)		No data available	
Potassium polyacrylate (25608-12-2)		No data available	

*PEL = Permissible Exposure Limits; TLV = Threshold Limit Value; EL = Excursion Limit; TWA = Time Weighted Average (8 hr); STEL = Short Term Exposure Limit (15 min.); WEEL = Workplace Environmental Exposure Level*

### Personal Protective Equipment

**Respiratory protection** Not required for properly ventilated areas.  
**Hand protection** Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.  
**Eye protection** Avoid contact with eyes. Wear chemical splash goggles or safety glasses with side shield.  
**Skin and body protection** Closed shoes and long pants should be worn. Suitable safety clothing should be worn.  
**General** Sink/Eyewash fountain and safety shower is recommended. Do not smoke in work area.

**Comments:** OEL and ACGIH limits are internationally accepted.

## Section 9 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  
**Flammability limits %: upper** Not applicable  
**Vapour pressure** Not applicable

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Relative density	1.01 g/cm <sup>3</sup> (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
Explosive properties	Not available

## Section 10 Stability and Reactivity

Reactivity	Not reactive under normal temperature conditions and recommended use.
Chemically Stable	Stable under normal temperature conditions and recommended use.
Incompatibility with other substances	Oxidising agents, reducing agents, nitric acid, peroxides, alkali.
Anticipated hazardous decomposition products	None.

## Section 11 Toxicological Information

### Health effects associated with ingredients

This material is considered hazardous.

### Component analysis - LD50

Water (7732-18-5)	No data available
Erioglucine disodium salt (223-339-8)	Oral: LD50 Rat >1900 mg/kg
Tartrazine (1934-21-0)	Oral: LD50 Mouse 12750 mg/kg
Potassium polyacrylate (25608-12-2)	Oral: LD50 Rat >5000 mg/kg

Carcinogenicity	Not classified as a carcinogen.
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## Section 12 Ecological Information

Aquatic toxicity	<b>Water (7732-18-5)</b> No data available
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**Erioglucine disodium salt (223-339-8)**

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No data available

### Tartrazine (1934-21-0)

No data available

### Potassium polyacrylate (25608-12-2)

No data available

#### Persistence and biodegradability

No data available.

#### Mobility in soil

No data available.

#### General Information

Nothing specific

#### Possible environmental impact

Not hazardous

#### Bio-accumulative potential

No data available.

#### Ecological Limit Values

No data available.

## Section 13 Disposal Consideration

#### Waste treatment methods

Waste produced can be recycled by an authorised facility.

#### Waste disposal methods

Non-recycled waste must be disposed of at a registered landfill site. Basic assessment must be conducted to identify waste type. Records of all waste disposal must be retained, and a disposal certificate must be issued by the disposal facility.

#### Additional

Dispose of according to local and national regulations.

## Section 14 Transport Information

	ADR/RID	IMDG	IATA
UN Number		Not regulated	
Shipping Name		Not regulated	
Transport Hazard Class(es)		Not regulated	
Transport signage		None	
Packaging Group		Not regulated	
Environmental Hazards	Not regulated	Marine Pollutant	No
<b>Special precautions</b>	The vehicle transporting the material must provide all required information, such as to indicate material should be kept away from heat sources. It is advisable to check validity of transport regulations with appropriate authority. Drivers should have knowledge of how to handle this material using the correct PPE (as discussed in this SDS) in the event of spillages or interaction with material. There are no other special requirements.		

## Section 15 Regulatory Information

#### Relevant Regulations

Waste Classification and Management Regulations.

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All applicable local regulations for classifying, labelling and transport must be adhered to when handling this product.

**Labelling** None

## Section 16 Other Information

**Update** Check the information at the top of this page for relevant update information and adjust work accordingly

**Testing performed by** Physical testing was performed by Scibalab (Pty) Ltd (www.sci-ba.co.za)

**References** 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.

**Acronyms**

- ACGIH = American Conference of Governmental Industrial Hygienists
- CAS = Chemical Abstract Service
- HEPA = High Efficiency Particulate Air
- NIOSH = National Institute of occupational Safety and Health
- OSHA = Occupational Safety and Health Administration
- SANS = South African National Standards
- TLV = Threshold limit Value
- UN = United Nations

## Section 17 Notice

The information provided in this Safety Data Sheet (SDS) was completed through information analytical measurements performed on supplied samples or information supplied in good faith and believed to be correct and according to applicable legislation at the date thereof. Sci-Ba makes no depiction to the accuracy or completeness thereof.

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