

MATERIAL SAFETY DATA SHEET

FIREBLOCK LITHIUM

MATERIAL IDENTIFICATION

Product Name: FIREBLOCK LITHIUM
Product Use: For Extinguishing Lithium Battery Fires
Chemical Family: Acrylate Polymer Sodium Salt (SAP)

Eye Contact: Flush eyes with water for a minimum of 15 minutes. Exposure may cause eyelids to become sticky.

Skin Contact: Cleanse the affected area thoroughly with soap and water. This product may lead to dry skin. Repeated exposure may result in skin irritation. If irritation persists, consult a medical professional.

Ingestion: In case of ingestion, consume ample water to aid in flushing the system. Promptly seek medical assistance if significant amounts have been ingested.

INGREDIENTS

Potassium Polyacrylate($C_3H_3KO_2$)_n
 Silicon Dioxide (SiO₂)
 Aluminium Oxide (Al₂O₃)
 Iron Oxide (Fe₂O₃)
 Magnesium Oxide (MgO)
 Calcium Oxide (CaO)
 Potassium Oxide (K₂O)
 Titanium Dioxide (TiO₂)
 Lithium Oxide (Li₂O)
 Water (H₂O)

FIREFIGHTING MEASURES

Explosion Data: Non explosive
Flammability: Non Flammable or combustible
Special Procedures: None
Flash-point: Non Flammable
Auto Ignition: Not Applicable

HAZARDOUS IDENTIFICATION AND CAUTION

Not classified as hazardous to human health or the environment.

General Advice: Remove soaked clothing
Inhalation: Use a mask when handling large quantities and for protection against dust or smoke inhalation.
Eye Contact: May cause watering and redness
Skin Contact: May cause skin irritation on prolonged contact.
Ingestion: May cause nausea and vomiting.

ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is spilled or released Sweep up or flush with water or diluted salt solution.

CAUTION: The surface will become very slippery when wet

FIRST AID MEASURES

Inhalation: Place individual in a well ventilated area with sufficient fresh air circulation.

HANDLING AND STORAGE

Handling: Safe to handle. Material is slippery. Avoid repeated skin contact.

Storage: Store in a cool, dry place out of direct sunlight. Keep closed and out of reach of children.

EXPOSURE CONTROL / PERSONAL PROTECTION

Personal Precautions: Wear rubber gloves when handling for prolonged periods. Avoid contact with eyes, nose and mouth.

PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Water Base Gel
Appearance: Green Colour
Odour: Odourless
Vapour Pressure: Not available
Evaporation rate: Not available
Melting point (°C):
Boiling point (°C): 1500 Degrees Celsius
Freezing point (°C): 0 Degrees Celsius
% Volatile (by weight):
pH Level: pH: 6.5-8.5
Specific Gravity:
Bulk Density:
Flash Point: Non-flammable product

STABILITY AND REACTIVITY

Stable in normal use conditions.
Do not mix with any other chemicals products.

TOXICOLOGICAL INFORMATION

Refer to Hazardous Identification and Caution section

ECOLOGICAL INFORMATION

Low impact on the environment
Non Toxic
100% Bio-degradable

DISPOSAL INFORMATION

- Disposal can be carried out as for a non-toxic and inert substance.
- Gather spilled material using a shovel and broom, or equivalent, for potential reuse.
- Disperse by dissolving with salt and rinse into a sandy area.
- Avoid draining into sewers or watercourses to prevent blockages.

TRANSPORTATION INFORMATION

No specific transport required.
Easy to transport.
Not classified as dangerous for transportation.

REGULATORY INFORMATION

Not classified
Keep out of reach of children
Wear suitable gloves and eye protection

OTHER INFORMATION

The information contained in the Material Safety Data Sheet relates only to the specific material designated and does not constitute and accrument of workplace risks. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use and staff should be trained to handle the products and be aware of the related dangers.

The information and recommendation contained above are based on data and measures believed to be accurate and correct.

FIREBLOCK does not assume any liability whatsoever for the accuracy or completeness of the information contained herein.

Date: 09 April 2021



Signature:
Louis Koekemoer

