



SAFETY DATA SHEET

SDS No. M0528

Effective Date: 12/8/2022

1. IDENTIFICATION

Product identifier: Fyrewrap® LiB G2 Film

Recommended use: FyreWrap® LiB G2 Film is a high-temperature, lightweight flame barrier and electrically insulating material designed to increase safety in lithium-ion battery packs. This product are based on proprietary fire blocking technology specifically developed as a flame barrier for applications demanding extremely lightweight materials.

Manufacturer/Supplier: Alkegen
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USA

For additional SDSs, visit our web page, <http://www.Alkegen.com>, or call Alkegen Customer Service at (716) 768-6500

(e) Emergency phone number CHEMTREC will provide assistance for chemical emergencies. Call **1-800-424-9300**

2. HAZARDS IDENTIFICATION

(a) Classification of the chemical

Product is not classified, an "article" pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200 (c)), a "manufactured article" as defined by the Canadian Workplace Hazardous Materials Information System (WHMIS). This product is an article under the REACH definition. As the Classification and labelling regulations (CLP) strictly applies to substances and mixtures it does not make provision for articles. This product SDS is provided voluntarily as a duty of care to the user.

(b) Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200

Not applicable.

(c) Describe any hazards not otherwise classified that have been identified during the classification process

None known.

(d) Mixture rule not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Product is an "article" pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200 (c)), a "manufactured article" as defined by the Canadian Workplace Hazardous Materials Information System (WHMIS), and an "article" according to the EU REACH CLP regulation.

4. FIRST AID MEASURES

(a) Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion

SKIN

Handling of this material is not expected to cause irritation. If this occurs, rinse affected areas with water and wash gently. Do not rub or scratch exposed skin.

EYES

In case of eye contact flush abundantly with water; have eye bath available. Do not rub eyes.

NOSE AND THROAT

If these become irritated move to a dust free area, drink water and blow nose. If symptoms persist, seek medical advice.

5. FIRE FIGHTING MEASURES

(a) Suitable (and unsuitable) extinguishing media and

(b) Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Non-combustible products, class of reaction to fire is zero.

Packaging and surrounding materials may be combustible. Use extinguishing agent suitable for surrounding combustible materials.

(c) Special protective equipment and precautions for fire-fighters

NFPA Codes: Flammability: 0 Health: 1 Reactivity: 0 Special: 0

6. ACCIDENTAL RELEASE MEASURES

(a) Personal precautions, protective equipment, and emergency procedures

Minimize airborne dust. Compressed air or dry sweeping should not be used for cleaning. See Section 8 "Exposure Controls / Personal Protection" for exposure guidelines.

(b) Methods and materials for containment and cleaning up

Frequently clean the work area with a vacuum or wet sweeping to minimize the accumulation of debris. Do not use compressed air for clean-up.

7. HANDLING AND STORAGE

Handling of this product is expected to result in little or no exposure. Store in a dry area.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Eye Protection:

In case of dust formation, wear safety glasses with side shields or other forms of eye protection in compliance with appropriate standards to prevent eye irritation. Do not touch eyes with soiled body parts or materials. If possible, have eye-washing facilities readily available where eye irritation can occur.

9. PHYSICAL AND CHEMICAL PROPERTIES

(a) Appearance	Film	(j) Upper/lower flammability or explosive limits	Not applicable
(b) Odor	Odorless	(k) Vapor pressure	Not applicable
(c) Odor threshold	Not applicable	(l) Vapor density	Not applicable
(d) pH	Not applicable	(m) Relative density	Not applicable
(e) Melting point		(n) Solubility	Insoluble
(f) Initial boiling point and boiling range	Not applicable	(o) Partition coefficient: n-octanol/water	Not applicable
(g) Flash point	Not applicable	(p) Auto-ignition temperature	Not applicable
(h) Evaporation rate	Not applicable	(q) Decomposition temperature	Not applicable
(i) Flammability	Not applicable	(r) Viscosity	Not applicable

10. STABILITY AND REACTIVITY

(a) Reactivity	Product is non-reactive.
(b) Chemical stability	Product is stable and inert.
(c) Possibility of hazardous reactions	None
(d) Conditions to avoid	Please refer to handling and storage advice in Section 7
(e) Incompatible materials	None
(f) Hazardous decomposition products	None

11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected from use of the product.

None of the ingredients in this product are listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or have been found to be potential carcinogens in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.

12. ECOLOGICAL INFORMATION

No known aquatic toxicity.

(a) Ecotoxicity (aquatic and terrestrial, where available)

(b) Persistence and degradability

These products are insoluble materials that remain stable over time and are chemically identical to inorganic compounds found in the soil and sediment; they remain inert in the natural environment.

(c) Bioaccumulative potential

No bioaccumulative potential.

(d) Mobility in soil

No mobility in soil.

(e) Other adverse effects (such as hazardous to the ozone layer)

No adverse effects of this material on the environment are anticipated.

13. DISPOSAL CONSIDERATIONS

DISPOSAL

This product as manufactured, is not classified as a hazardous waste according to US Federal regulations (40 CFR 261). Any processing, use, alteration or chemical additions to the product, as purchased, may alter the disposal requirements. Under Federal regulations, it is the waste generator's responsibility to properly characterize a waste material, to determine if it is a "hazardous" waste. Check local, regional, state or provincial regulations to identify all applicable disposal requirements.

EUROPEAN UNION

Waste from this product is not classified as "hazardous" or "special" under European Union regulations. Disposal is permitted at landfills licensed for industrial waste.

14. TRANSPORT INFORMATION

(a) UN number	Not Applicable
(b) UN proper shipping name	Not Applicable
(c) Transport hazard class(es)	Not Applicable
(d) Packing group, if applicable	Not Applicable
(e) Environmental hazards (e.g., Marine pollutant (Yes/No))	Not a marine pollutant
(f) Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)	Not Applicable
(g) Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises	Not Applicable

Canadian TDG Hazard Class & PIN: Not regulated
Not classified as dangerous goods under ADR (road), RID (train) or IMDG (ship).

15. REGULATORY INFORMATION

UNITED STATES REGULATIONS

- EPA:** **Superfund Amendments and Reauthorization Act (SARA)** Title III - This product does not contain any substances reportable under Sections 302, 304, 313, (40 CFR 372).
Toxic Substances Control Act (TSCA) - All substances in this product are listed, as required, on the TSCA inventory.
- OSHA:** Comply with **Hazard Communication Standards** 29 CFR 1910.1200 and 29 CFR 1926.59 and the **Respiratory Protection Standards** 29 CFR 1910.134 and 29 CFR 1926.103.

INTERNATIONAL REGULATIONS

- Canada:** **Canadian Workplace Hazardous Materials Information System (WHMIS):**
No Canadian Workplace Hazardous Materials Information System (WHMIS) categories apply to this product.
Canadian Environmental Protection Act (CEPA) - All substances in this product are listed, as required, on the Domestic Substance List (DSL)

European Union:

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.
Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

16. OTHER INFORMATION

PRODUCT STEWARDSHIP PROGRAM

Alkegen has established a program to provide customers with up-to-date information regarding the proper use and handling of this product. If you would like more information, please call Alkegen Product Stewardship at **(716) 768-6500**

- Revision Summary:** Updated to Alkegen format.
- SDS Prepared By:** ALKEGEN PSP DEPARTMENT

DISCLAIMER

The information presented on this SDS (1) provides details on material identity, manufacturer/supplier information, hazard characterization and prevention, emergency response and other specialized information, (2) is considered to be accurate to the best of our knowledge, information and good faith belief as of the date of publication, (3) is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release of the material named, (4) should be read and used in conjunction with the company's relevant literature, (5) relates only to the specific material designated and may not be valid for such material used in combination with any other material or process and (6) is provided without warranty, expressed or implied, in law or in fact, of merchantability or fitness for a particular purpose. This document does not constitute a product specification and should not be relied on as such. Employers may use this SDS to supplement other information gathered by them in their efforts to assure the health and safety of their employees and the proper use of the product.