SAFETY DATA SHEET

SDS No. GI0011

Version: 1
Date: 11-April-2022

SECTION 1: IDENTIFICATION

1.1 Product identifier: BIOSOLUBLE CRSWrap®

1.2 Relevant identified uses of the substance or mixture and uses advised against: Low Temperature Insulation

1.3 Details of the supplier of the safety data sheet

Name: Alkegen

Address: 68 George Street
Green Island, NY USA 12183

Telephone number: 1-800-441-2466 or 1-518-273-6320

1.4 Emergency Telephone Number: CHEMTREC: 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

MOST IMPORTANT HAZARD: The product does not present any hazard for final use.

OSHA/GHS Classification: Not classified as hazardous.

2.2 Label Elements

- Hazard pictograms: None
-Signal words: None
-Hazard statements: None
-Precautionary statements: None

2.3 Other Hazards: Product dust may be irritating to eyes, skin and respiratory system.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Substance name	Contents	CAS No.	EINECS No.	Classification
Aluminum Foil	50-70%	7429-90-5	231-072-3	Not classified as dangerous in solid form.
Proprietary biosoluble fiber	20-50%	Not listed	Not listed	Not classified as dangerous
Chopped continuous strand fiberglass (> 5 microns in diameter)	1-15%	65997-17-3	266-046-0	Not classified as dangerous
Zinc oxide (Bound within proprietary biosoluble fiber)	<3%	1314-13-2	215-222-5	Aquatic Acute Tox 1 (H400) Aquatic Chronic 1 (H410)
Barium oxide (Bound within proprietary biosoluble fiber)	<3%	1304-28-5	215-127-9	Acute Tox 4 (H302, H332)

See Section 16 for full text of GHS Classifications.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye contact: Do not rub your eyes. Dust particles may cause abrasive eye injury. Flush eyes with water, holding the eyelids apart for several minutes. Get medical attention if irritation persists.

Skin contact: Do not rub or scratch. Rinse exposed skin with cold water then wash skin with soap and water. Do not use hot water as that opens skin pores and may increase fiber penetration and irritation. Remove contaminated clothing and launder before re-use. Get medical attention if irritation persists.

Inhalation: Remove victim to fresh air. Drink water to clear throat and blow nose to remove dust. Get medical attention if irritation persists.

Ingestion: If small quantities are swallowed, rinse out mouth with water. Drink plenty of water to help reduce irritation. If large amounts are swallowed or if irritation or discomfort occurs, get medical attention.

4.2 Most Important symptoms and effects, both acute and delayed: May cause eye irritation. Fibers may penetrate the skin and cause mechanical irritation. May cause mild respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed: No immediate treatment is normally required.

See Section 11 for more detailed information on health effects.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media: Use water, water fog, carbon dioxide, foam or dry chemical.

5.2 Special Hazards Arising from the Substance or Mixture: This product is not classified as flammable or combustible and will not support combustion in solid form. Normal handling will not generate aluminum dust or fines.

5.3 Advice for Fire-Fighters: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus for all fires involving chemical products.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate protective clothing and equipment (see section 8). Avoid contact with skin, eyes or clothing. Do not breathe dust.

6.2 Environmental Precautions: Avoid release to the environment.

6.3 Methods and Material for Containment and Cleaning Up: Pick up material and place into a container for disposal. If dust is present, wet down and collect in a manner to minimize the generation of airborne dusts or vacuum with a high efficiency vacuum cleaner. Avoid dispersal of dust in the air

(i.e., clearing dust surfaces with compressed air.).

6.4 Reference to Other Sections: Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

SECTION 7: HANDLING and STORAGE

7.1 Precautions for Safe Handling Avoid contact with eyes, skin and clothing. Avoid creating and breathing dusts. Wear protective clothing and equipment as described in Section 8. Use only with adequate ventilation. Do not eat, drink or smoke when using this material. Launder contaminated clothing before re-use. Wash thoroughly with soap and water after handling. Minimize the generation and accumulation of dust.

Empty containers retain product residues. Follow all SDS precautions in handling empty containers

7.2 Conditions for Safe Storage, Including any Incompatibilities: Store in a dry, well-ventilated area.

7.3 Specific end use(s): Low Temperature Insulation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Aluminum	5 mg/m3 (respirable) 15 mg/m3 (total dust) TWA OSHA PEL 1 mg/m3 (respirable) TWA ACGIH TLV
Proprietary biosoluble fiber	5 mg/m3 (respirable) 15 mg/m3 (total dust) TWA OSHA PEL, 1 f/cc TWA OSHA HSPP* 5 mg/m3 inhalable or 1 f/cc TWA ACGIH TLV 1 f/cc TWA Manufacturer Recommended
Chopped continuous strand fiberglass (> 5 microns in diameter)	5 mg/m3 (respirable) 15 mg/m3 (total dust) TWA OSHA PEL, 1 f/cc TWA OSHA HSPP* 5 mg/m3 inhalable or 1 f/cc TWA ACGIH TLV
Zinc oxide (Bound within proprietary biosoluble fiber)	5 mg/m3 (respirable) 15 mg/m3 (total dust) TWA OSHA PEL 2 mg/m3 (respirable) TWA ACGIH TLV 10 mg/m3 (respirable) STEL ACGIH TLV
Barium oxide (Bound within proprietary biosoluble fiber) As Barium	0.5 mg/m3 TWA OSHA PEL 0.5 mg/m3 TWA ACGIH TLV

* HSPP = OSHA voluntary Health and Safety Partnership Program

8.2 Exposure Controls:

-Engineering Measures: Use with adequate local exhaust ventilation to minimize exposures. Provide local exhaust ventilation where product is cut or processed in a manner that generates dust. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment).

- Respiratory Protection: If the occupational exposure limits are exceeded or irritation is experienced, wear an approved particulate respirator. Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use in accordance with all applicable regulations (in the US follow OSHA 1910.134) and good Industrial Hygiene practice.

- Hand Protection: Wear protective gloves to minimize skin contact. Barrier creams may be useful in reducing irritation.

- Eye/face Protection: Wear safety glasses with side shields or dust proof goggles.

- Other Protective Clothing or Equipment: Clothing with long sleeves and pants should be worn to avoid skin contact. Washing facilities should be available in the work area.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties

Physical State:	Solid, White fibrous glass paper and foil.
Color:	Various
Odor:	Odorless.
Odor Threshold:	Not applicable
pH:	Not applicable
Melting/Freezing Point:	1200°F (649°C)
Boiling Point:	Not applicable
Flash Point:	Not applicable
Flammability:	Not flammable
Relative Density:	No data available
Evaporation Rate: (n-butylacetate =1)	Not applicable
% Volatile by Volume:	0%
Lower Flammability Limit:	Not applicable
Upper Flammability Limit:	Not applicable
Vapor Pressure:	Not applicable
Relative Vapor Density (Air=1):	Not applicable
Solubility:	Insoluble
Autoignition Temperature:	Not applicable
Decomposition Temperature:	Not determined
Kinematic Viscosity:	Not applicable
Partition Coefficient n-octanol/water:	No data available
Explosive Properties:	None.
Oxidizing Properties:	Not applicable
Specific Gravity (H_2O= 1):	Not determined
Molecular Formula:	Not determined
Molecular Weight:	Not determined
Particle Characteristics:	No data available

9.2 Other Information: None.

SECTION 10: STABILITY and REACTIVITY

10.1 Reactivity: This material is not reactive under normal conditions.

10.2 Chemical Stability: Stable

10.3 Possibility of Hazardous Reactions: Will not occur.

10.4 Conditions to Avoid: Avoid dust formation.

10.5 Incompatible Materials: Avoid strong acids.

10.6 Hazardous
Decomposition Products: None expected.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:
Potential Health Effects:

Eye Contact: Dust may cause mechanical irritation and possible injury.
Skin contact: Dust may cause mechanical irritation.
Inhalation: Dust may cause nose, throat and upper respiratory tract irritation. Symptoms include coughing, sneezing and scratchy throat.
Ingestion: May cause irritation of the mouth and intestinal tract.
Acute toxicity: No specific data is available. Zinc oxide, and Barium oxide components are bound within the proprietary biosoluble fiber does not exist in a chemically free state in the product.
Skin corrosion/irritation: Not a skin corrosive.
Eye damage/ irritation: Dust may cause mechanical irritation and possible injury.
Respiratory Sensitization: Not a respiratory sensitizer.
Skin Sensitization: Not a skin sensitizer.
Germ Cell Mutagenicity: Not classified a germ cell mutagen.
Carcinogenicity: This fiber has not been specifically evaluated by any regulatory authority or other classification entity, such as ACGIH, IARC or NTP. None of the components is classified as a carcinogen by IARC, NTP, ACGIH, or OSHA.
Reproductive Toxicity: No effects on reproduction are expected.
Specific Target Organ Toxicity:
Single Exposure: No data available.
Repeat Exposure: No data available.
Aspiration Toxicity: Not an aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:
No data available.
12.2 Persistence and degradability:
No data available.
12.3 Bioaccumulative Potential:
No data available.
12.4 Mobility in Soil:
No data available.
12.5 Results of PVT and vPvB assessment:
Does not meet requirements for assessment.
12.6 Other Adverse Effects:
None known. The zinc oxide in this product is a component of the glass fiber and is not extractable under normal conditions.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:
Dispose in accordance with local, state and national regulations.

SECTION 14: TRANSPORTATION INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	N/A	Not classified for transport	N/A	N/A	N/A
Canadian	N/A	Not classified for transport	N/A	N/A	N/A

TDG					
IMDG	N/A	Not classified for transport	N/A	N/A	N/A
IATA/ICAO	N/A	Not classified for transport	N/A	N/A	N/A

14.6 Special Precautions for User: None

14.7 Transport in Bulk According to IMO Instruments: Not applicable – product not shipped in bulk.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

U.S. REGULATIONS:

CERCLA: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:
Hazard Category for Section 311/312: Classified as per Section 2 of this SDS.
Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Title III, Section 313 (40 CFR 372): Aluminum dust and fumes are reportable.

Section 302 Extremely Hazardous Substances (TPQ): None

U.S. STATE REGULATIONS

California Proposition 65: This product contains the following chemicals that are known to the State of California to cause cancer, birth defects or other reproductive harm: None known.

INTERNATIONAL REGULATIONS:

RoHS/WEEE: (Restriction on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations): This product is RoHS and WEEE compliant.

REACH: This product is an article and not subject to registration.

INTERNATIONAL INVENTORIES

US Toxic Substances Control Act Inventory (TSCA): This product is an article and not subject to TSCA.

Australian Inventory of Chemical Substances: This product is an article and not subject to chemical notification requirements.

China Inventory of Existing Chemicals and Chemical Substances: This product is an article and not subject to chemical notification requirements.

Japanese Existing and New Chemical Substances: This product is an article and not subject to chemical notification requirements.

Korean Existing Chemicals List: This product is an article and not subject to chemical notification requirements.

Philippine Inventory of Chemicals and Chemical Substances: This product is an article and not subject to chemical notification requirements.

Canadian CEPA New Chemical Notification: This product is an article and not subject to new chemical notification.

New Zealand: This product is an article and not subject to new chemical notification.

SECTION 16: OTHER INFORMATION

SDS Date of preparation/revision: April 11, 2022: New SDS.

Revision History: N/A

GHS Classification and H Phrases for Reference (See Section 3)
Acute Tox. 4 - Acute Toxicity Category 4
Aquatic Acute Tox 1 - Aquatic Acute Toxicity Category 1
Aquatic Chronic Tox 1 - Aquatic Chronic Toxicity Category 1
H302 Harmful if swallowed
H332 Harmful if inhaled
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

DEFINITIONS/ ABREVIATIONS
ACGIH: American Conference of Governmental Industrial Hygienists
ADR: Carriage of Dangerous Goods by Road (International Regulation)
CAA: Clean Air Act
CAS: Chemical Abstracts Service
CERCLA: Comprehensive Environmental Response, Compensation and Liability Act
DSL: Domestic Substances List
EPA: Environmental Protection Agency
EU: European Union
f/cc: Fibers per cubic centimeter
HEPA: High Efficiency Particulate Air
HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods Code
mg/m³: Milligrams per cubic meter of air
mmpcf: Million particles per cubic meter
NFPA: National Fire Protection Association
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
29 CFR 1910.134 & 1926.103: OSHA Respiratory Protection Standards
29 CFR 1910.1200 & 1926.59: OSHA Hazard Communication Standards
PEL: Permissible Exposure Limit (OSHA)
PIN: Product Identification Number
PNOC: Particulates Not Otherwise Classified
PNOR: Particulates Not Otherwise Regulated
PSP: Product Stewardship Program
RCRA: Resource Conservation and Recovery Act
REL: Recommended Exposure Limit (NIOSH)
RID: Carriage of Dangerous Goods by Rail (International Regulations)
SARA: Superfund Amendments and Reauthorization Act
SARA Title III: Emergency Planning and Community Right to Know Act
SARA Section 302: Extremely Hazardous Substances
SARA Section 304: Emergency Release
SARA Section 311: MSDS/List of Chemicals and Hazardous Inventory
SARA Section 312: Emergency and Hazardous Inventory
SARA Section 313: Toxic Chemicals and Release Reporting
STEL: Short Term Exposure Limit`
SVF: Synthetic Vitreous Fiber
TDG: Transportation of Dangerous Goods
TLV: Threshold Limit Value (ACGIH)
TSCA: Toxic Substances Control Act
TWA: Time Weighted Average

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.