

SAFETY DATA SHEET

SDS No. GI0001

Version: 1
Date: 11-April-2022

SECTION 1: IDENTIFICATION

1.1 Product identifier: CryoTherm® 233, 243, 1303

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. However, during manufacturing or handling, respirable micro-fibers may be released and result in the classification of the product as hazardous.

OSHA/GHS Classification: Carcinogen Category 2

2.2 Label Elements - Hazard pictograms:



-Signal words: Warning! Contains Glass Fiber Respirable Size
-Hazard statements: H351: Suspected of causing cancer
-Precautionary statements: P201: Obtain special instructions before use
 P202: Do not handle until all safety precautions have been read and understood.
 P281: Use personal protective equipment as required
 P308+P313: IF exposed or concerned: Get medical advice or attention.
 P501: Dispose of container/contents to approved disposal site in accordance with all local and national regulations.

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Substance name	Contents	CAS No.	EINECS No.	Classification
Special Purpose Glass Fiber Respirable Size	90-100%	65997-17-3	266-046-0	Carc. 2 H351
Chopped continuous strand fiberglass (> 5 microns in diameter)	0-10%	65997-17-3	266-046-0	Not classified as dangerous

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. Suspected of causing cancer.
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4.3 Indication of any immediate medical attention and special treatment needed:	No immediate treatment is normally required.
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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.
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5.2 Special Hazards Arising from the Substance or Mixture:	This product is not classified as flammable or combustible.
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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.
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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):

Filter media for the manufacture of air filters.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Special Purpose Glass Fiber Respirable Size	5 mg/m ³ (respirable) 15 mg/m ³ (total dust) TWA OSHA PEL, 1 f/cc TWA OSHA HSPP* 5 mg/m ³ inhalable or 1 f/cc TWA ACGIH TLV
Chopped continuous strand fiberglass (> 5 microns in diameter)	5 mg/m ³ (respirable) 15 mg/m ³ (total dust) TWA OSHA PEL, 1 f/cc TWA OSHA HSPP* 5 mg/m ³ inhalable or 1 f/cc 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. Work clothing should be laundered separately from normal clothing.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties

Physical State:	Solid, White fibrous glass paper.
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:	Not applicable
(n-butylacetate =1)	
% Volatile by Volume:	0%
Lower Flammability Limit:	Not applicable
Upper Flammability Limit:	Not applicable
Vapor Pressure:	Not applicable
Relative Vapor Density	Not applicable
(Air=1):	
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 (H₂O= 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

Skin corrosion/irritation: Not a skin corrosive. May cause mechanical irritation.

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: Glass wool including special purpose glass fibers (respirable size) are classified by NTP as reasonably anticipated to be a carcinogen. IARC has classified special purpose glass fibers as group 2B, possibly carcinogenic to humans. ACGIH has classified special purpose glass fibers as A3, confirmed animal carcinogen with unknown relevance to humans. OSHA has not classified special purpose glass fibers. Continuous filament fiberglass is not classified as a carcinogen by OSHA, IARC, NTP, or ACGIH. None of the other 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:

Not required.

12.6 Other Adverse Effects:

None.

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 TDG	N/A	Not classified for transport	N/A	N/A	N/A
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 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): None

Section 302 Extremely Hazardous Substances (TPQ): None

U.S. STATE REGULATIONS

California Proposition 65: This product contains special purpose glass fiber respirable size which is known to the State of California to cause cancer.

INTERNATIONAL REGULATIONS:

RoHS (Restriction on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations): This product is RoHS 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 – Company name change.

Revision History: N/A

CLP/GHS Classification and H Phrases for Reference (See Section 3)

Carc. 2 Carcinogen Category 2

H351: Suspected of causing cancer

DEFINITIONS/ ABBREVIATIONS

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.