

## SECTION 1: IDENTIFICATION

- 1.1 Product identifier:** Manniglass® 1950F
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:** 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.
- Adverse human health effects:** Product dust from processing may be irritating to eyes, skin and respiratory system.
- OSHA/GHS Classification:** Not classified as hazardous
- 2.2 Label Elements** 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
Chopped continuous strand fiberglass (> 5 microns in diameter)	30-50%	65997-17-3	266-046-0	Not classified as hazardous
Aluminum Foil	<40%	7429-90-5	231-072-3	Not classified as hazardous

See Section 16 for full text of GHS Classifications.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures

<b>Eye contact:</b>	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.
<b>Skin contact:</b>	Do not rub or scratch. Rinse exposed skin with cold water then wash skin with soap and water. Remove contaminated clothing and launder before re-use. Get medical attention if irritation persists.
<b>Inhalation:</b>	Remove victim to fresh air. Drink water to clear throat and blow nose to remove dust. Get medical attention if irritation persists.
<b>Ingestion:</b>	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.
<b>4.2 Most Important symptoms and effects, both acute and delayed:</b>	May cause mechanical eye irritation. May cause mild skin and respiratory irritation.
<b>4.3 Indication of any immediate medical attention and special treatment needed:</b>	No immediate treatment is normally required.
See Section 11 for more detailed information on health effects.	

## SECTION 5: FIREFIGHTING MEASURES

<b>5.1 Extinguishing Media:</b>	Use water, water fog, carbon dioxide, foam or dry chemical.
<b>5.2 Special Hazards Arising from the Substance or Mixture:</b>	Combustion of polymer and adhesive may generate oxides of carbon, hydrocarbons, and aluminum fumes.
<b>5.3 Advice for Fire-Fighters:</b>	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

<b>6.1 Personal Precautions, Protective Equipment and Emergency Procedures:</b>	Wear appropriate protective clothing and equipment (see section 8). Avoid contact with skin, eyes or clothing. Do not breathe dust.
<b>6.2 Environmental Precautions:</b>	Avoid release to the environment.
<b>6.3 Methods and Material for Containment and Cleaning Up:</b>	Pick up material and place into a container for disposal.
<b>6.4 Reference to Other Sections:</b>	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.

### 7.2 Conditions for Safe Storage, Including any Incompatibilities:

Store in a dry, well-ventilated area. Do not expose to temperatures above: 300 °C. Keep away from strong oxidizing agents; strong acids and strong bases.

### 7.3 Specific end use(s):

Manufacturing of articles and other industrial applications

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters:

Chopped continuous strand fiberglass (> 5 microns in diameter)	1 f/cc TWA OSHA HSPP* 5 mg/m <sup>3</sup> inhalable or 1 f/cc TWA ACGIH TLV
Aluminum	5 mg/m <sup>3</sup> (respirable) 15 mg/m <sup>3</sup> (total dust) TWA OSHA PEL 1 mg/m <sup>3</sup> (respirable) TWA ACGIH TLV

Note: If not listed above, refer to local regulations for specific country exposure limits

\* 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.

#### - 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 odorless solid laminated with aluminum foil
Color:	Various
Odor:	Odorless.
Odor Threshold:	Not determined
pH:	Not applicable

<b>Melting/Freezing Point:</b>	649°C / 1200°F
<b>Boiling Point:</b>	Not applicable
<b>Flash Point:</b>	Not applicable
<b>Flammability:</b>	Not flammable
<b>Relative Density:</b>	No data available
<b>Evaporation Rate:</b>	Not applicable
<b>(n-butylacetate =1)</b>	
<b>% Volatile by Volume:</b>	0%
<b>Flammability:</b>	No data available Not applicable
<b>Lower Flammability Limit:</b>	Not applicable
<b>Upper Flammability Limit:</b>	
<b>Vapor Pressure:</b>	Not applicable
<b>Relative Vapor Pressure @20°C: (Air=1):</b>	Not applicable
<b>Solubility:</b>	Insoluble
<b>Autoignition Temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	Not determined
<b>Kinematic Viscosity:</b>	Not applicable
<b>Partition Coefficient n-octanol/water:</b>	No data available
<b>Relative Density (H<sub>2</sub>O= 1):</b>	Not determined
<b>Particle Characteristics:</b>	No data available

**9.2 Other Safety Characteristics:** None determined

## SECTION 10: STABILITY and REACTIVITY

<b>10.1 Reactivity:</b>	This material is not reactive under normal conditions.
<b>10.2 Chemical Stability:</b>	Stable
<b>10.3 Possibility of Hazardous Reactions:</b>	Will not occur.
<b>10.4 Conditions to Avoid:</b>	Avoid dust formation.
<b>10.5 Incompatible Materials:</b>	Avoid strong oxidizing agents; strong acids and strong bases.
<b>10.6 Hazardous Decomposition Products:</b>	Thermal decomposition of polymer and adhesive may generate oxides of carbon, hydrocarbons and aluminum fumes.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects: Potential Health Effects:

<b>Eye Contact:</b>	Dust may cause mechanical irritation and possible injury.
<b>Skin contact:</b>	Dust may cause mechanical irritation.
<b>Inhalation:</b>	Dust may cause nose, throat and upper respiratory tract irritation. Symptoms include coughing, sneezing and scratchy throat.
<b>Ingestion:</b>	May cause irritation of the mouth and intestinal tract.
<b>Acute toxicity:</b>	Product is not acutely toxic. No specific data is available for product.
<b>Skin corrosion/irritation:</b>	Dust may cause mechanical irritation.
<b>Eye damage/ irritation:</b>	Dust may cause mechanical irritation and possible injury.
<b>Respiratory Sensitization:</b>	Not classified.
<b>Skin Sensitization:</b>	Not classified.
<b>Germ Cell Mutagenicity:</b>	Not classified.

**Carcinogenicity:** None of the components are classified as a carcinogen by IARC, NTP, ACGIH, or OSHA.

**Reproductive Toxicity:** Not classified.

**Specific Target Organ Toxicity:**

Single Exposure: Not classified.

Repeat Exposure: Not classified.

**Aspiration Hazard:** Not classified.

**11.2 Information on Other Hazards:** None.

**11.2.1 Endocrine disrupting properties:** None known.

## SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity:** Based on available data, the classification criteria are not met.

Product: 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 Endocrine disrupting Properties:**

None known.

**12.7 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 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 under OSHA Hazcom 2012 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

**INTERNATIONAL REGULATIONS:**

**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 chemical notification requirements.

**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)  
None

**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/m<sup>3</sup>:** 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.