



HAZARD COMMUNICATION SAFETY DATA SHEET

Doc: 2016-12-15.001

1. Identification

Product Name: Fiberflect™ Tape AB
 Synonyms or Product Family: Foil Laminated E Glass Tape complete with pressure sensitive adhesive
 CAS Number: Continuous Filament E Glass Fiber 65997-17-3
 Recommended use: Ideal for radiant heat applications requiring high adhesion and abrasion protection.
 Restriction on use: None known
 Manufacturer/ Supplier: **ADL Insulflex, Inc.**
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2. Hazards Identification

OSHA/HCS status: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture: Not classified

GHS Label Elements:
 Signal Word: No signal word
 Hazard statements: No known significant effects or critical hazards.
 Precautionary statements:
 Prevention: Not Applicable
 Response: Not Applicable
 Storage: Not Applicable
 Disposal: Not Applicable
 Supplemental label elements: Emits toxic fumes when heated.
 Hazards not otherwise classified: None Known

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Continuous Filament E Glass ¹	65997-17-3	98%
Aluminum foil	None assigned	1%
Proprietary adhesive	None assigned	1%

Note: *1 – As manufactured continuous filament glass fibers are not respirable. Continuous filament glass products that are chopped, crushed or severely mechanically processed during manufacturing or use may contain a very small amount of respirable particulate, some of which may be glass shards. See section 8 of Safety Data Sheet for exposure limit data.

Component Related Regulatory Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as carcinogen.

Component Information/Information on Non-Hazardous Components

No additional information available.

4. First Aid Measures

Primary Route of Exposure:

Skin contact, inhalation, ingestion & eye contact.

Inhalation

Inhalation of airborne fibers may cause irritation to the mouth, nose and throat.

Skin Contact

Temporary irritation of skin may be produced.

Eye Contact

Slight irritation may result from contact with eyes.

Ingestion:

May cause temporary irritation of the digestive tract, but not an expected route of entry in industrial uses.

Description of necessary first aid measures:

Eye:

Flush for 15 minutes with copious amounts of lukewarm water. Seek medical attention if irritation persists.

Skin:

Wash thoroughly with warm water and non-abrasive soap.

Inhalation:

Remove person to fresh air and seek medical attention.

Ingestion:

Seek medical assistance immediately.

5. Fire Fighting Measures

Suitable Extinguishing Media:

Water spray; carbon dioxide; dry chemical; foam.

Fire Fighting Procedures:

In a sustained fire, use self-contained breathing apparatus.

Unusual Fire and Explosion Hazards:

During sustained fire irritating and/or toxic gases may be generated by combustion.

Hazardous thermal decomposition products:

Fiberglass will not burn, but smoking of the product may occur at approximately 400-500 °F (approximately 200-260 °C) due to decomposition of the surface binder.

Surface binders may decompose in a fire situation and release carbon monoxide, carbon dioxide and water.

Additionally, there are many chemicals that can evolve during any partial decomposition of chemical products.

The amounts or identities cannot be predicted and can differ in each situation.

Special Protective Equipment and Precautions for Fire Fighters:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk without suitable training. Fiberglass itself will not support combustion, but in a sustained fire, proper protection against products of combustion from the fuel and sizing/binder must be worn.

6. Accidental Release Measures

Material is a solid.

Vacuum or wet-sweep fibrous dust.

7. Handling and Storage

Precautions for handling and storage:

Keep material in a clean dry place and keep container closed. Particular care should be taken to minimize dust when working with "used" material. If exposure limits are exceeded or if irritation is experienced, NIOSH approved respiratory protection should be worn.

8. Exposure Controls / Personal Protection

Exposure Limits:

Component Name (CAS #)	OSHA PEL (8hr TWA)	ACGIH TLV (8hr TWA)	NIOSH (8hr TWA)
Continuous Filament E Glass (65997-17-3)	mg/m ³	mg/m ³	mg/m ³
Non-respirable fibers and particulate	15 mg/m ³ (total dust)(a)	5 mg/m ³ (inhalable fraction)	5 mg/m ³ (total)
Respirable particulate	5 mg/m ³ (respirable dust)(b)	1 fiber/cm ³ (respirable fraction)	3 fiber/cm ³ (fibers ≤ 3.5 micrometer in diameter and ≥ 10 micrometer in length)

Engineering controls:

None known

Personal Protective Equipment (PPE):

Wear rubber gloves when handling this product. Personnel that are more susceptible to irritation from fibers or dusts should wear full-body coveralls.

Eye and Skin protection:

Safety glasses with side shields or chemical splash goggles must be worn to prevent eye contact. A good safety practice is to have an eyewash station readily available near the work area.

Respiratory protection:

Use an approved disposable dust respirator designed for nuisance type dusts

Ventilation:

General ventilation and/or local exhaust ventilation should be utilized to maintain exposure limits below the TLV

9. Physical and Chemical Properties

Physical State:

Solid

Colour:

Tan, aluminized foil adhered to the other side and slit into tape form.

Odour:

None

Odour Threshold:

Not Applicable

Softening point:

1555°F

Melting Point:

2075°F

Freezing Point:

Not Applicable

Initial Boiling Point/ Boiling Range:

Not Applicable

Flash Point:

Not Applicable

Evaporation Rate:

Not Applicable

Flammability (Solid, Gas):

Not Applicable

Explosion Limits:

Not Applicable

Vapour Pressure:

Not Determined

Vapour Density:

Not Determined

Relative Density:

Not Applicable

Solubility:

Negligible

Partition Coefficient:

Not Applicable

Auto-Ignition Temperature: Not Applicable
Decomposition Temperature: Not Applicable
Viscosity: Not Applicable
Specific gravity: 2.5

10. Stability and Reactivity

Reactivity: Not Applicable
Chemical Stability: Stable at normal temperature and storage conditions.
Possibility of Hazardous Reactions: Oxidation of the hydrocarbon coating produces carbon monoxide and carbon dioxide.
Conditions to Avoid: Incompatible with basic phosphates, hydrofluoric acid and some oxides and hydroxides.
Incompatible Materials: None Known
Hazardous Decomposition Products: Sizings or binders may decompose in a fire. See Section 5 of SDS for information on hazardous combustion products.

11. Toxicological Information

Signs and Symptoms of Overexposure:
Acute Effects: See Section 4
Eye Contact: See Section 4
Skin Contact: See Section 4
Inhalation: See Section 4
Ingestion: See Section 4

Chronic Effects and Carcinogenicity:
Carcinogenicity This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC or OSHA

E-Glass Fiber
General Product Information

Fiber Glass Continuous Filament

Dusts may cause mechanical irritation of the eyes and skin. Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. People with pre-existing respiratory conditions, may experience difficulty breathing, congestion and chest tightness. The International Agency for Research on Cancer (IARC) in June, 1987, categorized fiber glass continuous filament as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as well as animal studies was evaluated by IARC as insufficient to classify fiber glass continuous filament as a possible, probable, or confirmed cancer causing material. The American Conference of Governmental Industrial Hygienists (ACGIH) A4 classification, not classifiable as human carcinogen, for respirable continuous filament glass fibers is based on inadequate data in terms of its carcinogenicity in humans and/or animals. For respirable continuous filament glass fibers, a TLV-TWA of 1 fiber/cc was adopted to protect workers against mechanical irritation. The TLV-TWA of 5 mg/m³ was adopted for nonrespirable glass filament fiber, measured as inhalable dust, to prevent mechanical irritation of the upper respiratory tract.
Note: There are no known chronic health effects connected with long-term use or contact with these products.

Products that are chopped, crushed or severely mechanically processed during manufacture or use may contain a very small amount of respirable glass fiber-like fragments. NIOSH defines "respirable fibers" as greater than 5 microns in length and less than 3 microns in diameter with an aspect ratio of $\geq 5:1$ (length-to-width ratio).

Medical Conditions Aggravated by Exposure:

Chronic respiratory and skin conditions may temporarily worsen from exposure to this product.

Acute Toxicity Values:

None Known

12. Ecological Information

No information is available; however, toxicity is expected to be low based on the insolubility in water of the product.

13. Disposal Considerations

Disposal method:

User should follow normal methods of disposal in accordance with any governmental regulations.

14. Transport Information

UN Number:

None

UN Proper Shipping Name:

None

Transport Hazard Class(es):

None

Packing Group:

None

Environmental Hazards:

None

Transport in Bulk, if Applicable:

None

Special Precautions:

None

15. Regulatory Information

SARA Section 313:

Product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372: None

TSCA:

The chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States: None

WHMIS Hazard Class:

Not known

Harmonized Code:

7019.59.90.29

16. Other

Users are advised to ensure that this information is brought to the attention of their employees handling the product. The information given herein is believed to be reliable. However, ADL Insulflex, Inc. makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. ADL Insulflex, Inc.'s obligations shall be only as set forth in ADL Insulflex, Inc.'s standard terms and conditions of sale for this product. In no case will ADL Insulflex, Inc. be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product.

Users of ADL Insulflex, Inc. products should make their own evaluation to determine the suitability of each such product for the specific application and to establish safe handling and installation procedures.

Abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute of Occupational Safety and Health
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
TLV	Threshold Limit Value
PEL	Permissible Exposure Limit
TWA	Time Weighted Average
STEL	Short Term Exposure Limit
IDHL	Immediately Dangerous to Life or Health
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
DSL	Domestic Substances List

SDS preparation date:

December 15, 2016