



HAZARD COMMUNICATION SAFETY DATA SHEET

Doc: 2016-12-15.001

1. Identification

Product Name: Thermosleeve™ S
 Synonyms or Product Family: Glass Fiber Sleeve
 CAS Number: Continuous Filament E Glass Fiber 65997-17-3
 Proprietary mixture of polymer saturant
 Recommended use: Heat protection and insulation on hoses and cables
 Restriction on use: None known
 Manufacturer/ Supplier: **ADL Insulflex, Inc.**
 A member of the ADL Group.
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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	~95%
Polymer Saturant	Proprietary	<5%

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

This product may be regulated, have exposure limits or other information identified as the following: glass wool fiber, fibrous glass and nuisance particulates.

Component Information/Information on Non-Hazardous Components

No additional information available.

4. First Aid Measures

Primary Route of Exposure:

Inhalation

Inhalation, skin, eye

Dust and fibers from this product may cause mechanical irritation of the nose, throat and respiratory tract.

Skin Contact

Dust and fibers from this product may cause temporary mechanical irritation to the skin.

Eye Contact

Dust and fibers from this product may cause temporary mechanical irritation to the eyes.

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:

Ingestion is unlikely. If it does occur, watch for several days to make sure intestinal blockage does not occur. If there is blockage, seek medical attention.

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:

None Known

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:

Normal warehouse conditions.

8. Exposure Controls / Personal Protection

Exposure Limits:

Component Name (CAS #)	OSHA PEL (8hr TWA)	ACGIH TLV (8hr TWA)
Continuous Filament E Glass (65997-17-3)	mg/m ³	mg/m ³
Non-respirable fibers and particulate	15 mg/m ³ (total dust)(a)	5 mg/m ³ (inhalable fraction)
Respirable particulate	5 mg/m ³ (respirable dust)(b)	3 mg/m ³ (PNCO)*
Respirable particulate with fiber like dimensions (glass shards)	None Established	1 fiber/cm ³ aspect ratio >5:1
Polymer		

*PNOC = Particles not otherwise classified

Engineering controls:

None known

Personal Protective Equipment (PPE):

Loose fitting long sleeved shirt that covers to the base of the neck, long pants and gloves. Skin irritation is known to occur chiefly at pressure points such as around the neck, wrist, waist and between fingers.

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 eye wash station readily available near the work area.

Respiratory protection:

Some applications of these products may not require respiratory protection for fiberglass. However, if airborne fibrous glass concentrations exceed the OSHA permissible limits or if irritation occurs, a properly fitted NIOSH/MSHA approved disposable dust respirator such as the 3M model 8210 (formerly 8710) or model 9900 (in high humidity environments) or equivalent should be used. Use respiratory protection in accordance with your local regulations and OSHA regulations under CFR 1910.134.

Ventilation:

Local exhaust ventilation (if needed) to maintain appropriate airborne dust levels.

9. Physical and Chemical Properties

Physical State:

Solid

Colour:

Beige

Odour:

None

Odour Threshold:

Not Applicable

pH-value:

Not Applicable

Melting Point:

Not Applicable

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 Applicable

Vapour Density:

Not Applicable

Relative Density:

Not Applicable

Solubility:

Insoluble

Partition Coefficient:

Not Applicable

Auto-Ignition Temperature:

Not Applicable

Decomposition Temperature:

Not Applicable

Viscosity:

Not Applicable

10. Stability and Reactivity

Reactivity:	Not Applicable
Chemical Stability:	This is a stable material.
Possibility of Hazardous Reactions:	None Known
Conditions to Avoid:	None Known
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:	Material is considered inert.
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:
E-Glass Fiber
General Product Information

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.

Fiber Glass Continuous Filament

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 data available for this product.

13. Disposal Considerations

Disposal method: Fiberglass is generally considered to be inert materials. No special disposal procedures need be followed. 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

Safety, health and environmental regulations specific to the product:	
WHMIS Hazard Class:	Not known
Harmonized Code:	7019.90.10.00

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
PEL	Permissible Exposure Limit
TWA	Time Weighted Average
STEL	Short Term Exposure Limit
IDHL	Immediately Dangerous to Life or Health

SDS preparation date:

December 15, 2016