



SAFETY DATA SHEET

INDUSTRIES 3R

SECTION 1. IDENTIFICATION

IDENTITY:

Part Number:

TXP660S

Identity:

Fiberglass silicon tubing

Description:

Protection of hoses and cables from heat and flame

SUPPLIER :

Industries 3R Inc.

55, route 116 Ouest

Danville (Québec) J0A 1A0

Tel: 819-839-2793

Fax: 819-839-2797

SECTION 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

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Weight %
Continuous Filament E Glass ¹	65997-17-3	~50%
Silicone Rubber	Not available – Proprietary Mixture	~50%

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.

SECTION 4. FIRST AID MEASURES

Primary Route of Exposure:	Inhalation, skin, eye
Inhalation	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.

SECTION 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 person; 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Material is a solid.	Vacuum or wet-sweep fibrous dust.
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SECTION 7. HANDLING AND STORAGE

Precautions for handling and storage:	Normal warehouse conditions.
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SECTION 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
Silicone Rubber	Not Applicable	Not Applicable

*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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Colour:	White or off-white coloured interior with Iron-oxide Red exterior
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

SECTION 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.

SECTION 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: Silicone Rubber	Inert substance with no known chronic effects or 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.
Carcinogenicity Fiber Glass Continuous Filament	<p>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.</p> <p>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.</p> <p>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.</p> <p>Note: There are no known chronic health effects connected with long-term use or contact with these products.</p> <p>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 ration of \geq</p>

Ingestion	5:1 (length-to-width ratio). Ingestion of this product is unlikely. May produce gastrointestinal irritation and discomfort.
Medical Conditions Aggravated by Exposure:	Chronic respiratory and skin conditions may temporarily worsen from exposure to this product.
Acute Toxicity Values:	None Known

SECTION 12. ECOLOGICAL INFORMATION

No data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal method: Fiberglass and polymerized silicone rubber are 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.

SECTION 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

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations specific to the product:	
WHMIS Hazard Class:	Not known
Harmonized Code:	8546.10.00.90

SECTION 16. OTHER INFORMATION

DISCLAIMER – The information provided in this Safety Data Sheet is based on our current knowledge. While the information and recommendations set forth herein are believed to be accurate, Industries 3R takes no warranty with respect thereto and disclaims all liability in reliance thereon. We recommend testing according to local conditions. The specifications are subject to change without notice.