TEAM® Industrial Services

SAFETY DATA SHEET

1. Product and Company Identification

Material name	**F-10 FIBER**
Version #	00
Issue date	19-August-2013
Revision date	19-August-2013
Supersedes date	-
Chemical name	Polytetrafluoroethylene
Chemical description	PTFE Fiber
CAS #	9002-84-0
Product code	802-0001
Product use	Industrial Leak Sealant.
Manufacturer information	
Manufacturer/Supplier	Team Industrial Services, Inc.
Address	200 Hermann Drive, Alvin, Texas 77511, US
Emergency telephone number	CHEMTREC - 24 HOURS USA: CHEMTREC: 800-424-9300 International: 703-527-3887 (Collect)

2. Hazards Identification

Physical state	Solid.
Appearance	White powder.
Emergency overview	Dust may irritate the respiratory tract, skin and eyes.
OSHA regulatory status	This product is hazardous according to OSHA 29 CFR 1910.1200.
Potential health effects	
Routes of exposure	Eye contact. Skin contact. Ingestion. Inhalation.
Eyes	Dust may irritate the eyes.
Skin	Dust may irritate skin.
Inhalation	Dust may irritate throat and respiratory system and cause coughing.
Ingestion	No harmful effects expected in amounts likely to be ingested by accident.
Chronic effects	Repeated exposure to high concentrations of dust may adversely affect the lungs.
Signs and symptoms	Direct contact with eyes may cause temporary irritation.
Potential environmental effects	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Polyfluoroethylene	9002-84-0	100

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures

Eye contact	Do not rub eyes. Flush eyes thoroughly with water for at least 15 minutes. Get medical attention if irritation develops or persists.
Skin contact	Wash area with soap and water. Get medical attention if irritation develops or persists.
Inhalation	Remove victim to fresh air. Get medical attention if symptoms persist.
Ingestion	Rinse mouth and drink plenty of water. Only induce vomiting at the instruction of medical personnel. Get medical attention if any discomfort occurs.

Notes to physician	Treat symptomatically.
General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties	No unusual fire or explosion hazards noted.
Extinguishing media	
Suitable extinguishing media	Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media	No restrictions known.
Protection of firefighters	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Protective equipment and precautions for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials. Cool material exposed to heat with water spray and remove it if no risk is involved.
Hazardous combustion products	Carbon monoxide. Carbon dioxide. Hydrogen fluoride. Carbon tetrafluoride. Carbonyl fluoride.

6. Accidental Release Measures

Personal precautions	Avoid inhalation of dust and contact with skin and eyes. Avoid prolonged and repeated contact. See Section 8 of the MSDS for Personal Protective Equipment.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
Methods for containment	Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	Collect and dispose of spillage as indicated in section 13 of the MSDS.
Other information	Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling	Avoid inhalation of dust and contact with skin and eyes. Use work methods which minimize dust production. Provide adequate ventilation. Observe good industrial hygiene practices.
Storage	Store in closed original container in a dry place. Keep away from incompatible material.

8. Exposure Controls / Personal Protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Engineering controls	Provide adequate ventilation.
Personal protective equipment	
Eye / face protection	Risk of contact: Wear approved safety glasses or goggles.
Skin protection	Where skin contact is likely, wear chemical impervious gloves. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance	White powder.
Physical state	Solid.
Form	Powder.
Color	White.
Odor	Odorless.

Odor threshold	Not available. **pH**
	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Boiling point	Not available.
Melting point/Freezing point	645.8 °F (341 °C)
Solubility (water)	Insoluble in water
Specific gravity	2 - 2.2
Flash point	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Avoid dust formation. Heating above 750° F for prolonged periods.
Incompatible materials	Molten alkali metals. Interhalogen compounds.
Hazardous decomposition products	Carbon oxides. Tetrafluoroethylene, hexafluoropropylene, perfluoroisobutylene, and carbonyl flouride.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Sensitization	Not a skin sensitizer.
Acute effects	May cause discomfort if swallowed.
Local effects	Dusts may irritate the respiratory tract, skin and eyes.
Chronic effects	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
Carcinogenicity	No data available.
Reproductive effects	None known.
Symptoms and target organs	Direct contact with eyes may cause temporary irritation.
Further information	Repeated exposure to high concentrations of dust may adversely affect the lungs. PTFE dust does not accumulate in the body. Following long-term exposure to chemicals formed when PTFE is heated or mechanically ground or cut, fluoride may accumulate in the bones. PTFE resin begins to emit fumes at approximately 315°C. Workers exposed to PTFE fumes produced at 350-380°C (temperatures associated with liberation of hexafluoroethane, perfluoroisobutylene, and octafluorocyclobutene) exhibited symptoms consistent with polymer fume fever at workplace air concentrations of 3.5 mg/m3 for compounds containing fluorine. Polymer fume fever lasts 1-2 days and is characterized by influenza-like symptoms including fever, chills, and chest tightness.

12. Ecological Information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Persistence and degradability	No data available.
Bioaccumulation / Accumulation	No data available.
Partition coefficient	No data available.
Mobility in environmental media	The product is insoluble in water and will sediment in water systems.

13. Disposal Considerations

Waste codes	Not regulated.
Disposal instructions	Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Recover and reclaim or recycle, if practical.
Contaminated packaging	Dispose product packaging in accordance with local authority requirements taking into account characteristics of the packaging material.

14. Transport Information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations This product is hazardous according to OSHA 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
Section 302 extremely hazardous substance (40 CFR 355, Appendix A)	No
SARA 311/312 Hazardous chemical	Yes
Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)	Not controlled
Canadian regulations	This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
WHMIS status	Non-controlled

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

16. Other Information

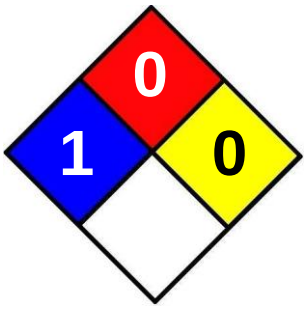
Further information

HMIS® is a registered trade and service mark of the NPCA.
F - Safety Glasses, Gloves, Apron, Dust Respirator

HMIS® ratings

Health: 1
Flammability: 0
Physical hazard: 0
Personal protection: F

NFPA Ratings



Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.