

**TEAM**<sup>®</sup> Industrial Services  
**SAFETY DATA SHEET**

### 1. Product and Company Identification

**Material name** F-11F FIBER  
**Version #** 00  
**Issue date** 19-August-2013  
**Revision date** 19-August-2013  
**Supersedes date** -  
**Chemical name** Polytetrafluoroethylene  
**Chemical description** Powdered or granular PTFE mixture  
**CAS #** 9002-84-0  
**Product code** 802-0002  
**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** Powder or granules.  
**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.

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

## 5. Fire Fighting Measures

<b>Flammable properties</b>	No unusual fire or explosion hazards noted.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water spray, foam, dry powder or carbon dioxide.
<b>Unsuitable extinguishing media</b>	No restrictions known.
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Protective equipment and precautions for firefighters</b>	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.
<b>Fire fighting equipment/instructions</b>	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.
<b>Hazardous combustion products</b>	Carbon monoxide. Carbon dioxide. Hydrogen fluoride. Carbon tetrafluoride. Carbonyl fluoride.

## 6. Accidental Release Measures

<b>Personal precautions</b>	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.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.
<b>Methods for containment</b>	Prevent entry into waterways, sewer, basements or confined areas.
<b>Methods for cleaning up</b>	Collect and dispose of spillage as indicated in section 13 of the MSDS.
<b>Other information</b>	Clean up in accordance with all applicable regulations.

## 7. Handling and Storage

<b>Handling</b>	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.
<b>Storage</b>	Store in closed original container in a dry place. Keep away from incompatible material.

## 8. Exposure Controls / Personal Protection

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Engineering controls</b>	Provide adequate ventilation.
<b>Personal protective equipment</b>	
<b>Eye / face protection</b>	Risk of contact: Wear approved safety glasses or goggles.
<b>Skin protection</b>	Where skin contact is likely, wear chemical impervious gloves. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.
<b>Respiratory protection</b>	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.
<b>General hygiene considerations</b>	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

<b>Appearance</b>	Powder or granules.
<b>Physical state</b>	Solid.
<b>Form</b>	Solid.
<b>Color</b>	Not available.
<b>Odor</b>	Not applicable.

<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Vapor pressure</b>	Not Applicable.
<b>Vapor density</b>	Not Applicable.
<b>Boiling point</b>	Not Applicable.
<b>Melting point/Freezing point</b>	Not available.
<b>Solubility (water)</b>	Insoluble
<b>Specific gravity</b>	Not available.
<b>Flash point</b>	Not Applicable.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Other data</b>	
<b>Heat of vaporization</b>	estimated

## 10. Chemical Stability & Reactivity Information

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

## 11. Toxicological Information

<b>Sensitization</b>	Not a skin sensitizer.
<b>Acute effects</b>	May cause discomfort if swallowed.
<b>Local effects</b>	Dusts may irritate the respiratory tract, skin and eyes.
<b>Chronic effects</b>	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
<b>Carcinogenicity</b>	No data available.
<b>Reproductive effects</b>	None known.
<b>Symptoms and target organs</b>	Direct contact with eyes may cause temporary irritation.
<b>Further information</b>	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/m <sup>3</sup> 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

<b>Ecotoxicity</b>	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.
<b>Environmental effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
<b>Persistence and degradability</b>	No data available.
<b>Bioaccumulation / Accumulation</b>	No data available.
<b>Partition coefficient</b>	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** No

**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)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
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**

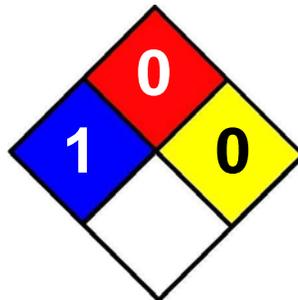
**Further information**

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.