TEAM® Industrial Services

SAFETY DATA SHEET

1. Product and Company Identification

Material name	**SEALANT 77**
Version #	00
Issue date	19-August-2013
Revision date	19-August-2013
Supersedes date	-
CAS #	Mixture
Product code	800-0068
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, thick putty-like compound.
Emergency overview	At elevated temperatures, vapor may cause irritation of eyes and respiratory tract.
OSHA regulatory status	Under some use conditions, this material may be considered to be hazardous in accordance with OSHA 29 CFR 1910.1200.
Potential health effects	
Routes of exposure	Eye contact. Skin contact. Ingestion. Inhalation.
Eyes	May cause temporary eye irritation.
Skin	Prolonged skin contact may cause dermatitis.
Inhalation	The thermal decomposition vapors of fluorinated polymers may cause polymer fume fever. Polymer fume fever lasts 1-2 days and is characterized by influenza-like symptoms including fever, chills, and chest tightness.
Ingestion	No harmful effects expected in amounts likely to be ingested by accident.
Chronic effects	None known.
Signs and symptoms	Direct contact with eyes may cause temporary irritation. Symptoms include redness, itching and pain. Dermatitis. Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing.
Potential environmental effects	The product components are 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	1-100

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 Flush thoroughly with water. If irritation occurs, get medical assistance. Make sure to remove any contact lenses from the eyes before rinsing.

Skin contact	Wash area with soap and water. Get medical attention if irritation develops or persists. If burned by contact with hot material, cool material adhering to skin as quickly as possible with water.
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. High heat processing of this product liberates thermal decomposition gases, which when inhaled can result in polymer fever. This condition is characterized by influenza type symptoms (fever, cough and malaise), which usually occurs within a few hours and resolves within 48 hours. Following severe exposure the patient should be kept under medical surveillance for at least 48 hours since delayed pulmonary edema may develop.
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. Above 400°C (752°F) gases such as hydrogen fluoride and perflouroisobutylene, which can be fatal at low concentrations are evolved.
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 breathing mist or vapor from heated material. Avoid contact with skin and eyes. 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	The intended use of this product does not include its milling, grinding or saw cutting. Provide adequate ventilation. Avoid breathing mist or vapor from heated material. Avoid contact with skin and eyes. Observe good industrial hygiene practices.
Storage	Store in closed original container in a dry place. Keep cool. Keep away from open flames.

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, thick putty-like compound.
Physical state	Solid.
Form	Solid.
Color	White.
Odor	Odorless.
Odor threshold	Not available.
pH	6.7
Vapor pressure	Not available.
Vapor density	Not available.
Boiling point	Not Applicable.
Melting point/Freezing point	Not Applicable
Solubility (water)	Insoluble.
Specific gravity	1.93 (Compressed) (H2O=1)
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.
VOC	None (under 250°C)
Evaporation rate	Not Applicable.

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Fluorine. Molten alkali metals. Interhalogen compounds. Powdered metals.
Hazardous decomposition products	Thermal decomposition may lead to release of irritating gases and vapors. Carbon oxides. Above 400°C (752°F) gases such as hydrogen fluoride and perflouroisobutylene, which can be fatal at low concentrations are evolved.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Sensitization	Not a skin sensitizer.
Acute effects	The thermal decomposition vapors of fluorinated polymers may cause polymer fume fever. Polymer fume fever lasts 1-2 days and is characterized by influenza-like symptoms including fever, chills, and chest tightness.
Local effects	May cause eye irritation on direct contact. Prolonged skin contact may cause dermatitis.
Chronic effects	None known.
Carcinogenicity	No data available.
Epidemiology	No data available.
Mutagenicity	No data available.
Reproductive effects	No data available.
Symptoms and target organs	Direct contact with eyes may cause temporary irritation. Symptoms include redness, itching and pain. Dermatitis. Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing.
Further information	No data available.

12. Ecological Information

Ecotoxicity	The product is not expected to be hazardous to 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.

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 Under some use conditions, this material may be considered to be hazardous in accordance with 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
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.

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

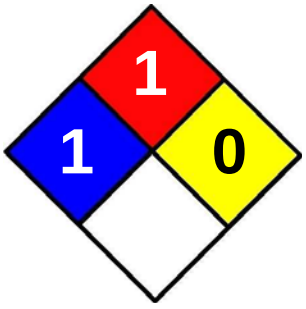
Not regulated.

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.
I - Safety Glasses, Gloves, Dust, Vapor Respirator

HMIS® ratings
Health: 1
Flammability: 1
Physical hazard: 0
Personal protection: I

NFPA Ratings



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