

TEAM[®] Industrial Services
SAFETY DATA SHEET

1. Product and Company Identification

Material name VALVE PACK 4
Version # 00
Issue date 01-24-2013
Revision date 01-24-2013
Supersedes date -
Chemical name Coated fiber
Chemical description Fibrous Resin Mixture
CAS # Mixture
Product code 901-0004
Product use Industrial Leak Sealant
Manufacturer information
Manufacturer/Supplier Team Industrial Services, Inc.
200 Hermann Drive, Alvin, Texas 77511
Emergency Contact CHEMTREC - 24 HOURS
USA: CHEMTREC: 800-424-9300
International: 703-527-3887 (Collect)

2. Hazards Identification

Physical state Solid.
Appearance Gray pliable semi-solid with ether like odor.
Emergency overview Suspected of causing cancer. When cured: Mechanical processing may generate dust.
OSHA regulatory status This product is not hazardous according to OSHA 29CFR 1910.1200.
Potential health effects
Routes of exposure Eye contact. Skin contact.
Eyes Direct contact with eyes may cause temporary irritation.
Skin Prolonged or repeated skin contact may cause irritation.
Inhalation Dust may cause irritation.
Ingestion Ingestion may cause irritation and malaise.
Chronic effects Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
Signs and symptoms Direct contact with eyes may cause temporary irritation.
Potential environmental effects Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Polyfluoroethylene	9002-84-0	50-80
Perchloroethylene	127-18-4	25-50
Butene, homopolymer	9003-29-6	10-25

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.
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	None known.

6. Accidental Release Measures

Personal precautions	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	Provide adequate ventilation. Avoid prolonged and repeated contact. Observe good industrial hygiene practices.
Storage	Store in closed original container in a dry place.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Perchloroethylene (CAS 127-18-4)	STEL	100 ppm
	TWA	25 ppm

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
Perchloroethylene (CAS 127-18-4)	Ceiling	200 ppm
	TWA	100 ppm

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
Perchloroethylene (CAS 127-18-4)	STEL	678 mg/m3
	TWA	100 ppm
		170 mg/m3
		25 ppm

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value
Perchloroethylene (CAS 127-18-4)	STEL	100 ppm
	TWA	25 ppm

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
Perchloroethylene (CAS 127-18-4)	STEL	100 ppm
	TWA	25 ppm

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value
Perchloroethylene (CAS 127-18-4)	STEL	685 mg/m3
	TWA	100 ppm
		170 mg/m3
		25 ppm

Mexico. Occupational Exposure Limit Values

Components	Type	Value
Perchloroethylene (CAS 127-18-4)	STEL	1340 mg/m3
	TWA	200 ppm
		1250 mg/m3
		100 ppm

Engineering controls Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust.

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 Gray pliable semi-solid with ether like odor.

Physical state Solid.

Form Pliable semi-solid.

Color Gray. **Odor**

Ether-like.

Odor threshold Not available.

pH Not available.

Vapor pressure Not available.

Vapor density Not available.

Boiling point 480 °F (248.9 °C)

Melting point/Freezing point Not available.

Solubility (water) Slightly soluble in water.

Specific gravity	0.85
Flash point	393 °F (200.6 °C)
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
Partition coefficient (n-octanol/water)	No data available.

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	None in particular.
Incompatible materials	None known.
Hazardous decomposition products	None known.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Perchloroethylene (CAS 127-18-4)		
Acute		
<i>Inhalation</i>		
LC50	Rat	4100 mg/l, 6 Hours
<i>Oral</i>		
LD50	Rat	2400 mg/kg
Sensitization	Not a skin sensitizer.	
Acute effects	May cause discomfort if swallowed.	
Local effects	May cause eye irritation on direct contact. Prolonged or repeated skin contact may cause irritation.	
Chronic effects	No additional adverse health effects noted.	
Carcinogenicity	Suspected of causing cancer.	
ACGIH Carcinogens		
Perchloroethylene (CAS 127-18-4)		A3 Confirmed animal carcinogen with unknown relevance to humans.
IARC Monographs. Overall Evaluation of Carcinogenicity		
Perchloroethylene (CAS 127-18-4)		2A Probably carcinogenic to humans.
US NTP Report on Carcinogens: Anticipated carcinogen		
Perchloroethylene (CAS 127-18-4)		Reasonably Anticipated to be a Human Carcinogen.
Mutagenicity	Not classified.	
Reproductive effects	Not classified.	
Symptoms and target organs	May cause redness and pain.	

12. Ecological Information

Ecotoxicological data

Product	Species	Test Results
VALVE PACK B (CAS Mixture)		
Aquatic		
Crustacea	EC50 Daphnia	20.96 mg/l, 48 hours, estimated
Fish	LC50 Fish	39.0965 mg/l, 96 hours, estimated

Components	Species	Test Results
Perchloroethylene (CAS 127-18-4)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 6.1 - 9 mg/l, 48 hours
Fish	LC50	Flagfish (Jordanella floridae) 4 mg/l, 96 hours
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.	
Perchloroethylene (CAS 127-18-4)		3.4
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	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	Perchloroethylene (CAS 127-18-4)	
US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration	Perchloroethylene (CAS 127-18-4)	0.1 %
US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance	Perchloroethylene (CAS 127-18-4)	Listed.
CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)	Perchloroethylene: 100	
Superfund Amendments and Reauthorization Act of 1986 (SARA)		
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
Section 302 extremely hazardous substance (40 CFR 355, Appendix A)	No	

Section 311/312 (40 CFR 370)	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	Controlled
WHMIS classification	D1B - Immediate/Serious-TOXIC D2A - Other Toxic Effects-VERY TOXIC D2B - Other Toxic Effects-TOXIC

WHMIS labeling



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)	Yes
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)

State regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Hazardous Substances (Director's): Listed substance

Perchloroethylene (CAS 127-18-4) Listed.

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

Perchloroethylene (CAS 127-18-4) Listed.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Perchloroethylene (CAS 127-18-4) Listed: April 1, 1988 Carcinogenic.

US - New Jersey RTK - Substances: Listed substance

Perchloroethylene (CAS 127-18-4) Listed.

US - Pennsylvania RTK - Hazardous Substances: Special hazard

Perchloroethylene (CAS 127-18-4) Special hazard.

US. Massachusetts RTK - Substance List

Perchloroethylene (CAS 127-18-4) Listed.

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

Perchloroethylene (CAS 127-18-4) 500 LBS

US. Pennsylvania RTK - Hazardous Substances

Perchloroethylene (CAS 127-18-4) Listed.

16. Other Information

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

HMIS® ratings

Health: 2*
Flammability: 1
Physical hazard: 0
Personal protection: B

NFPA ratings

Health: 2
Flammability: 1
Instability: 0

Disclaimer

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