PACKING FIBER
KILLARK CATALOG NUMBERS: PF-2, PF-4, PF-16

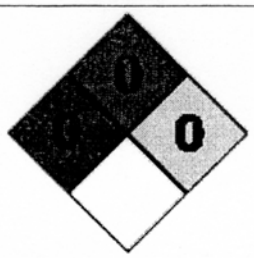
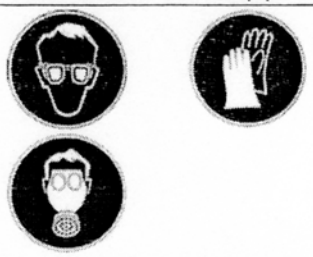
Pyrotek™

SAFETY DATA SHEET

According to EC Directive 2001/58/EC

PF-Fiberseal Packing Fiber

Revision Date 02-Nov-2005

Classification	NFPA	PPE Personal Protection Equipment	Transport Symbol
			

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name PF-Fiberseal Packing Fiber
Product code 12001 - PFFIBER

Manufacturer or supplier's details

Pyrotek Inc
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Emergency telephone number Pyrotek (509) 926-6212, Chemtrec 24hr (800) 262-8200

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Names	CAS-No	EINECS-No.	Weight %	Classification
Fiberous Glass	65997-17-3		> 75%	NE
Phenolic Resin	9003-35-4		1 - 5%	NE

For the full text of the R phrases mentioned in this Section, see Section 16

All components

Chemical Names
Fiberous Glass
PVA Resin
Phenolic Resin

Further information
Synthetic vitreous fibers (SVF) are fibrous inorganic substances classified into three general groups: fiberous glass (glasswool and glass filament), mineral wool (rockwool and slagwool), and refractory ceramic fibers (RCF). Devitrification (conversion of fibers to a crystalline state) may occur when SVF materials are exposed to high temperatures producing disordered crystalline silica forms.

Crystalline silica (SiO_2) exists in several forms: quartz, cristobalite and tridymite. Fused silica (non-crystalline quartz), if heated to more than 1200°C (2192°F) for an extended period, converts to crystalline silica in the form of tridymite. As heated crystalline silica slowly cools, its form can change. When cooled to approximately 870°C (1598°F), it can take on the form of crystalline quartz. Continued cooling below 573°C (487°F) can change the form to cristobalite. However, more rapid cooling from a high temperature may solidify any form of crystalline silica at normal temperatures.

Prolonged exposure to respirable crystalline silica may cause delayed (chronic) lung injury known as silicosis. Silicosis is a form of disabling pulmonary fibrosis, which can be progressive and may lead to death.

The OSHA PEL for crystalline silica as tridymite and cristobalite is one-half of the OSHA PEL for crystalline silica (quartz) - 0.1 mg/m^3.

3. HAZARDS IDENTIFICATION

Emergency Overview
No information available

Appearance -Solid **Odor** Slight
Classification -
Symbol(s) In accordance with Annex I of Directive 67/548/EEC and its amendments, this substance does not need to be classified nor labelled **R -phrase(s)** No information available

Physico-chemical properties	No information available
Properties affecting health	No information available
Environmental properties	No information available
Main symptoms	No information available
Aggravated Medical Conditions	No information available
Interactions with other chemicals	No information available
Potential environmental effects	No information available

See Section 11 for additional Toxicological information.

4. FIRST AID MEASURES

Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Skin contact	Wash off with soap and water.
Ingestion	No information available. Consult a physician if necessary.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable properties The product is not flammable

Suitable extinguishing media Carbon dioxide (CO2), Water spray, Water, Dry chemical, Foam.

Unsuitable extinguishing media No information available

Specific hazards arising from the chemical No information available

Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA	**Health** -	**Flammability** -	**Instability** 0
HMIS	**Health** -	**Flammability** -	**Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid dust formation. Use personal protective equipment.

Environmental precautions Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up Vacuum or wet sweep. Take up mechanically and collect in suitable container for disposal. Avoid dust formation.

7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid dust formation.

Storage Keep in a dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Chemical Names	ACGIH TLV	OSHA PEL	EU	United Kingdom	France
Fiberous Glass	Not Listed	Not Listed	Not Listed	5 mg/m³	VME: 1 fibre/cm3
PVA Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Phenolic Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

Chemical Names	Italy	Spain	Germany	Portugal	Netherlands
Fiberous Glass	Not Listed	VLA-ED: 1 fiber/cc Fibers with a random orientation, with a content in alkaline and alkali-earth oxide (Na2O+K2O+CaO+MgO+BaO) below 18% in weight	250000 F/m³ except asbestos	TWA: 5 mg/m³ TWA: 1 fiber/cm3 TWA: 1 fiber/cm3	MAC: 10 mg/m³
PVA Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Phenolic Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

Chemical Names	Switzerland	Finland	Austria	Poland	Norway
Fiberous Glass	Not Listed	Not Listed	Not Listed	Not Listed	5 mg/m³
PVA Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Phenolic Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

Chemical Names	Czech Republic	Ireland	Denmark	Belgium	Greece
Fiberous Glass	Not Listed	TWA: 5 mg/m³ TWA: 2 fibres/ml	Not Listed	Not Listed	Not Listed
PVA Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Phenolic Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

Chemical Names	Luxembourg	Sweden	Hungary	Slovak Republic	
Fiberous Glass	Not Listed	LTV: 1 fiber/cm3	Not Listed	TWA: 4 mg/m³ TWA: 2 fibers/cm3	
PVA Resin	Not Listed	Not Listed	Not Listed	Not Listed	
Phenolic Resin	Not Listed	Not Listed	Not Listed	Not Listed	

Occupational exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas

PPE

Respiratory protection Respirator must be worn if exposed to dust.
Eye/face protection Goggles. Safety glasses with side-shields.
Skin protection Long sleeved clothing. Protective gloves.

General industrial hygiene practice Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

Environmental exposure controls No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Solid
Color Tan - Light yellow
Odor Slight
pH No data available
Flash point No data available
Autoignition temperature No data available
Boiling point/range No data available
Melting point/range 1150°C / 2100°F
Flammability Limits in Air **Upper** No data available **Lower** No data available
Evaporation Rate No data available
Vapor pressure No data available

Vapor density	No data available
Specific Gravity	No data available
Solubility	Insoluble
Partition coefficient (n-octanol/water)	No data available
Viscosity	No information available

10. STABILITY AND REACTIVITY

Stability Stable.

Conditions to avoid Avoid dust formation.

Materials to avoid Acids.

Hazardous decomposition products Under fire conditions Carbon oxides

Possibility of hazardous reactions Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information

Chemical Names	LD50 Oral	LD50 Dermal	LC50 Inhalation
Fiberous Glass	-	-	-
PVA Resin	14700 mg/kg Mouse 20 g/kg Rat	-	-
Phenolic Resin	-	-	-

Potential health effects

Principle Routes of Exposure Eye contact, Skin contact, Inhalation.

Acute effects

Eyes	Contact with eyes may cause irritation.
Skin	Substance may cause slight skin irritation.
Inhalation	May cause irritation of respiratory tract.
Ingestion	Not a normal route of exposure. None known.

Chronic toxicity

Chronic toxicity No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Names	ACGIH	NTP	OSHA	IARC	EU
Fiberous Glass	A3	Reasonably Anticipated	X	Group 3	Not Listed
PVA Resin	Not Listed	Not Listed	Not Listed	Listed	Not Listed
Phenolic Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

Chemical Names	United Kingdom	France	Germany	Spain	Italy
Fiberous Glass	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
PVA Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Phenolic Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

Chemical Names	Portugal	Netherlands	Switzerland	Austria	Norway
Fiberous Glass	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans A4 - Not Classifiable as a Human Carcinogen	Not Listed	Not Listed	Not Listed	Not Listed
PVA Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Phenolic Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

Chemical Names	Ireland	Denmark	Belgium	Sweden	Czech Republic
Fiberous Glass	Not Listed	carcinogen	Not Listed	Not Listed	Not Listed
PVA Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Phenolic Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

Chemical Names	Hungary	Luxembourg
Fiberous Glass	Not Listed	Not Listed
PVA Resin	Not Listed	Not Listed
Phenolic Resin	Not Listed	Not Listed

Target Organ effects Eyes, Skin, Respiratory System, Lungs.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants

Persistence and degradability No information available

Bioaccumulation No information available

Mobility in Environmental Media No information available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods Dispose of in accordance with local regulations

Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

No Information available

15. REGULATORY INFORMATION

Labelling

Symbol(s)
In accordance with Annex I of Directive 67/548/EEC and its amendments, this substance does not need to be classified nor labelled

R -phrase(s)
No information available

S -phrase(s)
No information available

International Inventories

Chemical Names	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Fiberous Glass	X	-	X	X	-	X	-	X	X	X
PVA Resin	-	-	X	X	-	X	X	X	X	X
Phenolic Resin	-	-	X	X	-	X	X	X	X	X

Germany
WGK Classification

Chemical Names	Germany Water Classifications
Fiberous Glass	This substance is not classified as dangerous according to German legislation
PVA Resin	hazard class 1, low hazard to waters
Phenolic Resin	hazard class 1, low hazard to waters

Switzerland
Switzerland Poison Classification
No information available

USA
Federal Regulations
SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372:

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Release of Pressure	Reactive Hazard
-	-	-	-	-

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product contains the following HAPs:
Fiberous Glass (CAS #: 65997-17-3)

State Regulations
California Proposition 65
This product contains the following Proposition 65 chemicals:

Chemical Names	Category	Type
Fiberous Glass (CAS #: 65997-17-3)	Carcinogen	-
PVA Resin (CAS #: 9002-89-5)	-	-
Phenolic Resin (CAS #: 9003-35-4)	-	-

State Right-to-Know

Chemical Names	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Fiberous Glass	X	-	X	-	X
PVA Resin	-	-	-	-	-
Phenolic Resin	-	-	-	-	-

Canada

WHMIS hazard class D2B Toxic materials

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2

No information available

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Revision Date 02-Nov-2005

Revision Note No information available

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