



# TFCO Inc



## MATERIAL SAFETY DATA SHEET

PRODUCT: PTFE STEM PACKING

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DATE: 4/23/03

### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: TFCO INCORPORATED  
PO BOX 339  
LAPORTE, IN 46352

Emergency Phone Number  
(219) 778-4166  
Information Calls:  
(219) 778-4166

### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>CAS#</u>	<u>Percentage</u>
None		
<u>Other Ingredients</u>		
Polytetrafluoroethylene	9002-84-0	100

### SECTION 3: HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Product is an odorless, white solid cord. As sold, this product presents no known health hazards. At temperatures above 535 degrees F, this polymer will break down and the fumes could cause a temporary "flu like" illness. No smoking while handling this material.

#### POTENTIAL HEALTH EFFECTS:

EYE: No harmful effects anticipated for product as sold.

SKIN CONTACT: No harmful effects anticipated for products as sold.

SKIN ABSORPTION: Skin absorption is unlikely due to physical properties of product.

INGESTION: No harmful effects anticipated for product as sold. LD50 (PTFE resin): 1250 mg/kg in rats.

INHALATION: Inhalation is unlikely due to physical properties of product.

#### CHRONIC EFFECTS/CARCINOGENICITY:

PTFE is not listed by IARC, NTP, OSHA or ACGIH as a carcinogen. No significant adverse effects anticipated. Repeated oral doses of the polymer resin yielded no toxic effects except for alteration in the number of circulating white blood cells after long-term dosing. Testing demonstrated no developmental toxicity in animals, and no genetic damage in animals or in bacterial cell cultures.(1)



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### SECTION 4: FIRST AID MEASURES

**INHALATION:** Unlikely route of entry for product as sold. If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician if symptoms persist.

**SKIN CONTACT:** This product is not likely to be hazardous by skin contact, but if redness or itching develops, then cleansing the skin with water after use is advisable.

**EYE:** Unlikely route of entry for product as sold. If mechanical irritation occurs flush eyes with plenty of water. Consult physician if symptoms persist.

**INGESTION:** Unlikely route of entry for product as sold. Consult physician if necessary.

**NOTES TO PHYSICIAN:** Inhaling fumes of decomposition products can induce temporary influenza-like symptoms which are described as "polymer fume fever". These symptoms include fever, cough and malaise.

### SECTION 5: FIRE FIGHTING MEASURES

**FLASH POINT:** Does not flash

**METHOD:** Open cup

**AUTOIGNITION TEMPERATURE:** Not Available

**FLAMMABILITY LIMITS:** Not Applicable

**EXTINGUISHING MEDIA:** Water, foam, dry chemical or CO<sub>2</sub>

**FIRE AND EXPLOSION HAZARDS:** PTFE will burn in an atmosphere of 95% oxygen when an ignition source is present. Hazardous gases/vapors produced in a fire are hydrogen fluoride (HF), carbonyl fluoride, perfluoroolefins, carbon monoxide and low molecular weight fluorocarbons.

**FIRE FIGHTING EQUIPMENT:** Wear self-contained breathing apparatus. Wear full protective equipment. Protect from hydrogen fluoride fumes, which react with water to form hydrofluoric acid. Wear neoprene gloves when handling refuse from a fire involving PTFE.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Sweep to avoid slipping or tripping hazard.

### SECTION 7: HANDLING & STORAGE

No special safety precautions are necessary.

### SECTION 8: EXPOSURE CONTROLS; PERSONAL PROTECTION

No special personal protection or exposure controls are indicated for this product as sold except those mentioned in section 7.



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### SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Melting Point:	648 deg F
Water Solubility:	Insoluble
Odor:	None
Appearance:	White solid cord
SPG:	Greater than 0.9

### SECTION 10: STABILITY & REACTIVITY

Stability:	Stable at normal temperatures and storage conditions
Hazardous Polymerization:	Will not occur
Incompatibility:	Reacts with molten alkali metals and interhalogen compounds
Hazardous Decomposition Products:	Above 535 deg F, this product may evolve toxic gaseous materials such as hydrogen fluoride, carbonyl fluoride and perfluoroolefins. Particulate matter evolved from overheating may cause polymer fume fever.

### OTHER INFORMATION:

Waste Disposal:	Discarded product is not a hazardous waste under RCRA, 40 CFR 261. Preferred options for disposal are recycling and landfill. Incinerate only if incinerator is capable of scrubbing out hydrogen fluoride and other acidic combustion products. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state and local regulations.		
DOT:	Not regulated	TSCA Inventory:	Listed
SARA 313/302:	Not listed	311/312:	Not hazardous
California:	Not listed		
New Jersey:	Not listed		
Pennsylvania:	Hazardous Substance List (Prop 65)		
References:	1. Supplier MSDS (This information is given in good faith but no warranty, expressed or implied, is made).		