

Material Safety Data Sheet

Section 1 Chemical Product and Company Identification

Manufacturer

Federal Process Company
4620 Richmond Road
Cleveland OH 44128

Emergency Telephone Number Call Chemtrec at 1-800-424-9300

Product Identifier: Thred Tape PTFE Tape (Yellow, Pink, Green)
Product Description: PTFE Tape
Product Use: Sealing Tape

Section 2 Composition/Information on Ingredients

Additional information is provided in the Regulatory section of this document for Sara 313, California Proposition 65, and various state right-to-know laws.

Contains:	CAS#	WEIGHT %
Polytetrafluoroethylene	9002-84-0	99-100
Cadmium Pigments	7440-43-9	<1
Barium Sulfate	7727-43-7	<0.1

Polytetrafluoroethylene can emit toxic vapors at temperatures exceeding 700 F see Section 5 for additional information.

Section 3 Hazards Identification

HMIS HAZARD IDENTIFICATION

Health 1 Flammability 1 Reactivity 0

EMERGENCY OVERVIEW: Material is non toxic, insoluble, chemically inert, and non-biodegradable. Solid mterial will not support combustion, but if other fuel is present, composition products will burn at about 1275 F producing potentially toxic gaseoius products.

POTENTIAL HEALTH HAZARDS:

SKIN: None known
EYES: Not likely route of entry
INHALATION: Inhalation of fumes from burning or heating over about 500 F (260 C) may cause polymer fume fever. This presents flu-like symptoms which may include chills and fever. Symptoms may not appear for several hours after exposure, and normally disappear within 24 hours.
INGESTION: Not likely route of entry
DELAYED EFFECTS: None known

Ingredients found on one of the OSHA designted carcinogen lists are listed below:

<u>INGREDIENT NAME</u>	<u>NTP STATUS</u>	<u>IARC STATUS</u>	<u>OSHA STANDARD</u>
cadmium compounds	Group 2	Group 2A	1910.1027

Section 4 First Aid Measures

Not applicable (NA) for material as supplied at room temperature.

Processing at high temperature may generate fumes which can cause flu-like symptoms (polymer fume fever). Remove to fresh air, consult physician if severe.

Section 5 Fire Fighting Measures

EXTINGUISHING MEDIA: Foam (Aqueous Film Forming Foam) , dry chemical, carbon dioxide.

SPECIAL PRECAUTIONS: This compound will not burn unless it is pre-heated. Water fog may be used to cool the containers, however frothing may occur if water is sprayed directly into burning containers. Do not enter fire area without proper protection.

HAZARDOUS COMBUSTION PRODUCTS: The thermal decomposition products are highly dependant upon the combustion conditions. Noxious or toxic fumes may be generated, some of which may be toxic or irritating. Polytetrafluorethylene can emit toxic fumes when heated to temperatures exceeding 700 F. The maximum operating temperature for this compound is around 500 F. At these temperatures PTFE does not undergo any thermal degradation and is not hazardous.

FLASH POINT: Not Established
LOWER FLAMMABLE LIMIT: Not established
UPPER FLAMMABLE LIMIT: Not established
AUTOIGNITION TEMPERATURE: Not established

Section 6 Accidental Release Measures

Spills cannot occur. Dispose of any excess material in a safe manner. Incineration is to be avoided.

Section 7 Handling and Storage

HANDLING: Avoid contact with the skin and eyes. Use good industrial hygiene practices. Keep containers closed. Wash hands after using product and before eating, drinking, smoking or using toilet facilities.

STORAGE: Store in a dry place away from moisture, excessive heat and sources of ignition. Avoid storage near food to prevent food contamination.

Section 8 Exposure Controls/Personal Protection

VENTILATION REQUIREMENTS: In confined areas local and general ventilation should be provided. Ventilation systems must be designed according to approved engineering standards.

PERSONAL PROTECTION:

EYE: The wearing of protective glasses is recommended when handling any chemicals.

GLOVES: Only in the rare case where allergies are apparent are gloves necessary.

RESPIRATORY: Use appropriate NIOSH-approved respirator in presence of decomposition fumes.

OTHER: Eating and smoking should be prohibited in areas where product is handled. Nothing replaces good personal hygiene. Coveralls or other full body clothing shall be worn and properly laundered after use. Workers should wash hands, face, neck, and arms before eating, drinking, or smoking.

EXPOSURE GUIDELINES: (Guidelines exist for the following ingredients)

<u>INGREDIENT NAME</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER LIMIT</u>
Cadmium compound as Cd. CAS# 7440-43-9	0.01 mg/m ³ as dust total; 0.002 mg/m ³ as respirable dust; 8 hr TWA's	not determined	not determined
barium sulphate	10 mg/m ³ as dust, 8 hr TWA	not determined	not determined

Section 9 Physical and Chemical Properties

PHYSICAL STATE: Solid
ODOR AND APPEARANCE: Odorless, yellow , pink, or green, soft, compliant, easily stretched, waxy
feeling tape

LOWEST BOILING POINT: Does not apply
VAPOR PRESSURE: Not established
VAPOR DENSITY: Not established
WATER SOLUBILITY: Insoluble
% ORGANIC VOLATILES: not determined
pH: N.A.
CHEMICAL FORMULA: (C2F4)n (resin; pigment nd)

Section 10 Stability and Reactivity

STABILITY: Stable under normal conditions.
REACTIVITY: Unknown
INCOMPATIBILITIES: strong oxidizers, acids, bases
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce toxic and corrosive gaseous products
HAZARDOUS POLYMERIZATION? Hazardsous polymerization will not occur.

Section 11 Toxicological Information

IMMEDIATE (ACUTE) EFFECTS: No acute effects have been identified
DELAYED (SUBCHRONIC & CHRONIC EFFECTS) No delayed or chronic effects have been identified
OTHER DATA: Not applicable

Section 12 Ecological Information

These materials are chemically unreactive, non-toxic, non-water soluble, and non-biodegradable. They are completely recyclable.

Section 13 Disposal Information

Waste materials must be disposed of in accordance with your municipal, state, provincial and federal regulations. Contact the proper authorities for specific instructions. Avoid incineration.

Section 14 Transportation Information

DOT HAZARD CLASS: Not Regulated
PROPER SHIPPING NAME: Not Regulated
IDENTIFICATION NUMBER: Not Listed

Section 15 Regulatory Information

TOXIC SUBSTANCE CONTROL ACT (TSCA)

TSCA INVENTORY STATUS: All components are listed on the TSCA inventory.

SARA TITLE III/CERCLA:

Reportable Quantities (RQ's) and/or Threshold Planning Quantities (TPQ's) exist for the following ingredients:

INGREDIENT NAME	SARA/CERCLA	SARA EHS
na	na	na

Spills/releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center (1-800-424-8802) and to your Local Emergency Planning Committee.

SECTION 311 HAZARD CLASS: not determined

SARA 313 TOXIC CHEMICALS: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

<u>CAS#</u>	<u>CHEMICAL NAME</u>	<u>% BY WEIGHT</u>
7440-43-9	cadmium compounds as Cd	<1.0

STATE RIGHT TO KNOW:

In addition to the ingredients found in section 2, the following are listed for state right-to-know purposes:

<u>CAS#</u>	<u>CHEMICAL NAME</u>	<u>% BY WEIGHT</u>
na	na	na

ADDITIONAL REGULATORY INFORMATION:	not applicable
WHMIS CLASSIFICATION (CANADA):	not determined
FOREIGN INVENTORY STATUS:	not determined

Section 16 Other

Prepared by JHS

The above information and recommendations are believed accurate and reliable. Because it is not possible to anticipate all conditions of use, additional safety precautions may be required. The Federal Process Company makes no warranty, either express or implied, including merchantability and fitness.

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it into individual site safety programs in accordance with applicable hazard communication standards and regulations.