

SAFETY DATA SHEET

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

1.1. Product identifier

Product name: Natural PTFE High Density Thred-Tapes
Product information: Natural Polytetrafluoroethylene (PTFE) tapes

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product code: TT01, TT02, TT03, TT04, TT23, TT33, TT38, TT40, TT41, TT42, TT43, TT44

Recommended use: PTFE Thread Sealing Tape
Restrictions on use: Incompatible with molten alkali and alkaline earth metals, elemental fluorine, interhalogen compounds and some metal powders at 698°F (370°C) and above.

1.3. Details of the supplier of the safety data sheet

Manufacturer: FedPro, Inc.
Address: 4520 Richmond Rd.
Cleveland, OH 44128
U.S.A.
Telephone: 1-800-846-7325
Email: SDS@fedpro.com

1.4. Emergency telephone number: Call Chemtrec at 1-800-424-9300

2. HAZARD IDENTIFICATION

GHS Classification in accordance with OSHA Hazard Communication Standard (29 CFR 1910.1200)

2.1. Not Classified.

2.2. GHS Labels elements

Pictograms: None
Signal word: None
Hazard Statements: None
Precautionary Statements: None

2.3. Other hazards

When used above 288°C (550°F), thermal decomposition of PTFE will begin to occur. Inhalation of the fumes may cause fever, breathing difficulties, cough and shivering. Contamination of tobacco products with PTFE powder may cause effects similar to those above – known as Fume Fever.

2.4. Disposal

P501 Dispose of contents/container to an approved facility in accordance with local, national and international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS-No.	REACH-No.	% by Weight	Classification
Polytetrafluorethylene (homopolymer)	9002-84-0	Not applicable	≥ 99.9	Substances not classified as hazardous

4. FIRST AID MEASURES

4.1. Description of first aid measures

No first aid measures are needed under normal condition.

Inhalation	In case of inhalation of decomposition products, remove individual to fresh air, loosen clothing and seek medical attention.
Eye contact	N/A
Skin contact	N/A
Ingestion	N/A

4.2. Most important symptoms and effects, both acute and delayed

Not known.

4.3. Indication of any immediate medical attention and special treatment required

In case of malaise consult physician immediately.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing: Use media suitable for surrounding fire.

Not suitable: N/A

5.2. Special hazards arising from the substance or mixture

Under fire conditions: In case of fire, avoid inhalation of combustion gases.

High temperature could generate a thermal decomposition of the product. See section 10.6. In case of fire avoid inhaling the smoke.

5.3. Protective Equipment and Precautions for Fire-fighters

When firefighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing and self-contained, positive pressure or pressure demand breathing apparatus with full face-piece and helmet. Fluoropolymers can raise the relative toxicity of the combustion gases formed.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

N/A

6.2. Environmental precautions

N/A

6.3. Methods and material for containment and cleaning up

In case of Spillage: Sweep up to avoid slippage.

Waste Disposal: Dispose of contents/container to an approved facility in accordance with local, national and international regulations.

6.4 Reference to other sections

Refer to Section 8 and Section 13 for more information.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Bulk quantities of PTFE polymers should be stored away from flammable materials and in well-ventilated areas. However, in most situations, whether in storage or use, the quantity of material involved is small, and so no special measures should be taken.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

7.1. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See section 8 exposure controls and personal protection recommendations.

Storage Conditions Store dry, cool and well ventilated in original packaging. Keep container closed when not in use. Keep out of the reach of children. Keep out of direct sunlight. Keep away from heat and sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No occupational exposure limit values exist for the component listed in Section 3.

8.2. Exposure controls

No special protection by way of clothing or equipment is required to handle the product. However as in any industrial activity good hygiene and housekeeping practices should be applied. Provide temperature safety devices. When product is heated, provide appropriate local exhaust. Use general dilution ventilation and/or local exhaust ventilation to maintain levels of thermal decomposition products below their exposure guidelines.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid, thin, flexible tape
Color:	Natural white
Odor:	None
Odor threshold:	N/A
pH:	N/A
Viscosity:	N/A
Density:	0.90 -1.20 g/cm ³
Melting Point:	626 – 655°F (330-345 °C)
Boiling Point:	N/A
Solubility in H ₂ O:	Insoluble
Solubility (other):	Insoluble in all common solvents
Flash Point:	Does not flash
Auto Ignition Temp.:	1067°F (575°C)
Explosive properties:	N/A
Oxidizing properties:	N/A
Vapor pressure:	N/A

10. STABILITY AND REACTIVITY

10.1. Reactivity

This material may be reactive with certain agents under certain conditions (see the remaining headings in this section).

10.2. Chemical stability

Stable product

10.3. Possibility of hazardous reactions

Stable product

10.4. Conditions to avoid

Not determined

10.5. Incompatible materials

Inert. Reaction with alkali and alkaline earth metals. Reactions with some metals in powder form occur from 698°F (370°C) onwards. Incompatible with elemental fluorine and interhalogen compounds at elevated temperatures and pressures (no reaction at room temperature and normal pressures).

10.6. Hazardous decomposition products

Thermal decomposition: >550°F (> 288 °C) continuous. Significant decomposition above 752°F (400°C).

Combustion gases formed during the decomposition could be:

- Carbon monoxide
- Hydrogen fluoride
- Carbonyl fluoride
- Tetrafluoroethylene
- Hexafluoropropylene
- Perfluoroisobutylene

11. TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological effects

General:	According to experience the product is considered to be harmless to health if handled in the correct manner.
Acute:	Flu like transient sickness. The warm vapor may be causes an irritation of human respiratory system with may cause fever, breathing difficulties, cough and shivering.
Chronic:	None particularly symptom.
Routes of Entry:	<ul style="list-style-type: none"> a) Inhalation – high dust concentrations may be an irritant to the upper respiratory tract. b) Eyes – mechanical irritation c) Skin – not irritating and not absorbing. May cause physical abrasion. d) Ingestion – inert when ingested by rats.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

No product test data available.

12.2. Persistence and degradability

No product test data available.

12.3. Bioaccumulative potential

No product test data available.

12.4. Mobility in soil

No product test data available.

12.5. Results of the PBT and vPvB assessment

Not applicable

12.6. Other adverse effects

The product is insoluble in water, has very low volatility and has no harmful effect on the environment.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

This product has been classified as a non-hazardous waste. Dispose of waste and residues in accordance with local authority requirements. May be buried in an authorized landfill site or incinerated above 1472°F (800°C.)

14. TRANSPORT INFORMATION

D.O.T.	Not Regulated
PROPER SHIPPING NAME	N/A
IDENTIFICATION NUMBER	N/A
IATA	Not Regulated
IMDG	Not Regulated
UN-No:	Not applicable

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Carcinogenicity

Ingredient	CAS No.	Classification	Regulation
Polytetrafluorethylene (homopolymer)	9002-84-0	Gr. 3: Not classifiable	International Agency for Research on Cancer

Complies with REACH Regulation 1907/2006, RoHS Directives 2011/65/EU and 2015/863, CLP Regulation as amended with EC Regulation 830/2015.

15.2. Chemical Safety Assessment

According to Directives 2008/1272/EC and 2010/453/EC (Hazard Information and Packaging for Supply):
Not applicable

16. OTHER INFORMATION

NFPA	HEALTH HAZARDS	FLAMMABILITY	INSTABILITY	SPECIAL HAZARDS
	1	0	0	0
HMIS	HEALTH HAZARDS	FLAMMABILITY	INSTABILITY	SPECIAL HAZARDS
	1	0	0	0

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