

Product Name: **PTFE**

Synonyms: **High-Temp material**

PTFE

Composition / Information on Ingredients

Material	%	TLV	PEL (mg/m3)
PTFE resin	79-85	N/A	N/A
MoS ₂	2-5	10	10
Fiberglass	15-21	10	5

Physical and Chemical Properties

Melting Point: 342 +/- 10°C
Vapor Pressure: N/A
Vapor Density: N/A
Solubility in Water: Insoluble
Ph: N/A
Specific Gravity: 2.20-2.30
% Volatile By Volume: N/A
Appearance and Odor: Gray powder or pellet.

Fire and Explosion Hazards

Flashpoint: Does not flash
Auto Ignition Temperature: N/A
Flammable Limits (STP): N/A

Extinguishing Media: water, CO₂, foam or dry chemicals

Special Protective Equipment: Self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Toxic fluorine evolved in a fire. Does not burn without an external fuel source. Avoid Airborne dispersion.

Stability and Reactivity

Stability: Stable

Incompatibility: Alkali metals, Interhalogen compounds, Pure oxygen and other strong oxidizers.

Hazardous Decomposition Products: Hydrogen fluoride and Perfluoro. Hydrocarbons evolved above 250°C.

Hazardous Polymerization: Will not occur

Health Hazard Identification

General: Toxicity information is not available for these compounds. This assessment is based on information available for the components contained in the compound.

Inhalation: No toxic effects are known to be associated with inhalation or ingestion of dust. Mechanical irritation of the nose, mouth and throat may occur.

Other Effects of Overexposure: Heating this material to temperatures above 500°F can produce harmful fumes. Toxic gasses can be formed above 750°F.

PTFE (cont.)

First Aid Procedures

Skin: Wash material off with soap and water. For thermal burns, cool quickly with water and, if necessary, get medical attention.

Eyes: Immediately flush with water and have eyes examined by medical personnel.

Ingestion of decomposition products: Inhaling fumes of decomposition products can cause the temporary condition of "Polymer fume fever". Symptoms are flu-like and include fever, cough and malaise.

Disposal Considerations / Spill or Leak Procedures

Sweep up spilled material and dispose using procedures for solid waste in accordance with State, Local and Federal regulations. Discarded product is not a hazardous waste under RCRA 40 CFR 261. Do not incinerate.

Exposure Controls / Personal Protection

Ventilation: Provide local exhaust to minimize exposure if material is heated above 500°F.

Respiratory protection: Not normally needed if ventilation controls are adequate. If necessary, below 500°F use OSHA/NIOSH approved respirator for dust, mist and fumes. Above 500°F use positive pressure self-contained breathing apparatus.

Other protective equipment: Safety glasses with side shields, gloves and apron for protection from thermal burns when handling hot material and to protect skin from irritation.

Special Precautions

Enforce "No Smoking" in areas where fluoropolymers are handled or stored. Wash hands and face after handling material to avoid contamination of smoking materials.

Disclaimer: The information herein is given in good faith but no warranty, expressed or implied is made.