

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION

Trade Name (as labeled): TURCON®

Chemical Names, Common Names: Polytetrafluoroethylene and additives.

Manufactured by: Polymer Sealing Solutions
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SECTION 2 – HAZARDOUS INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>-----Exposure Limits in Air-----</u>		<u>Other</u>
		<u>ACGIH (TLV)</u>	<u>OSHA (PEL)</u>	
Polytetrafluoroethylene (PTFE)	9002-84-0	Not Listed	1.0 mg/m ³	

SECTION 3 – PHYSICAL PROPERTIES

Vapor Density (air = 1):	N/A	Melting Point or Range (°F):	N/A
Specific Gravity:	2.15	Boiling Point or Range (°F):	N/A
Solubility in Water:	Insoluble	Vapor Pressure (mmHg at 20°C):	N/A
Appearance/Odor:	Greenish solid	Evaporation Rate (butyl acetate = 1):	N/A

SECTION 4 – FIRE AND EXPLOSION

Flash Point (°F): 986 - 1022

Auto-Ignition Temperature (°F): 968 - 1068

Fire Extinguishing Materials: Water Spray, Foam, CO₂, or Dry Chemical may be used.

Special Fire Fighting Procedures: Use appropriate fire-fighting procedures for surrounding media. Self-contained breathing apparatus (SCBA), NIOSH approved, and full bunker gear should be used to enter confined space.

Unusual Fire and Explosion Hazards: Product decomposes above 500°F. Above 570°F, this material may undergo degradation which may result in influenza-like symptoms described in Section 6.

SECTION 5 – REACTIVITY DATA

Stability: Stable.

Conditions to Avoid: Temperature above 500°F – harmful fumes. Fumes generated above 800°F may cause death. Avoid strong oxidizing agents.

Incompatibility (Materials to Avoid): Metallics may react to strong oxidizers; may cause toxic copper compounds.

Hazardous Combustion/Decomposition Products: Formaldehyde; dangerous fluorocarbon vapors after temperatures exceed 800°F.

Hazardous Polymerization: Will not occur.

SECTION 6 – HEALTH HAZARD ASSESSMENT

Symptoms of Overexposure for Each Potential Route of Exposure:

Inhaled: N/A, see Section 5. Dust from grinding or other processing may cause irritation in dust form.

Contact with Skin or Eyes: May cause irritation in dust form.

Absorbed Through Skin: N/A; may cause mechanical irritation.

Swallowed: Inert, no symptoms.

Health Effects or Risks from Exposure:

Acute: Heating of material may cause fumes, the inhaling of which may cause "polymer fume fever" with influenza-like symptoms.

Chronic: None identified.

First Aid Emergency Procedures:

Eye Contact: Flush with water.

Skin Contact: Flush with water, wash with soap.

Inhaled: Remove to fresh air. If fumes or dust are inhaled and respiratory symptoms develop, see a physician.

Swallowed: Not anticipated route of exposure; see physician.

Suspected Cancer Agent: No.

Medical Conditions Aggravated by Exposure: None identified.

Recommendations to Physician: None.

SECTION 7 – HANDLING AND ENVIRONMENTAL INSTRUCTIONS
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Ventilation and Engineering Controls: Use mechanical ventilation to control TLV less than .05 mg/m³.

Respiratory Protection: Use MSHA/NIOSH approved respirator for dusts with TLV greater than 0.05 mg/m³. For polymer temperatures greater than 500°F, use pressure supplied respirator.

Eye Protection: Goggles.

Gloves: Mechanical protection.

Other Clothing and Equipment: Adequate to prevent contact.

Spill Response Procedures: Is solid.

Waste Disposal: Do not incinerate. **Note:** Dispose of all wastes in accordance with federal, state, and local regulations.

Work/Hygienic Practices: Sweep up dust to prevent slips.

Other Handling and Storage Requirements: Enforce no smoking in area where processing is done. Wash hands and face to avoid transferring PTFE to tobacco and cigarettes.

Protective Measures during Maintenance of Contaminated Equipment: None.

SECTION 8 – LABELING

Labeling (precautionary statements):

D.O.T. Label: None, not regulated.

NOTICE

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