



MATERIAL SAFETY DATA SHEET

GLASS FILLED PTFE

SECTION 1:

COMPOUNDS COVERED BY THIS SDS GRAPHITE FILLED PTFE

SECTION 2: PRODUCT IDENTIFICATION

Manufacturer's Name: Gemini Pro-Lon
Company Phone Number 855-521-7833
Daytime Emergency Phone #: 855-521-7833
(Chemtrec) Emergency Number: 1-800-424-9300
Chemical Name: Polytetrafluoroethylene
Synonyms: Hostafion®, Teflon®, Fluon®, Aglon®
Chemical Family: Fluorocarbon Resin
Molecular Weight: >100 Million
MSDS Code: N/A

SECTION 3: HAZARDOUS INGREDIENTS/ HAZARD DATA

CHEMICAL NAME(S)	PEL/TLV SOURCE
Polytetrafluoroethylene	10 mg/cm (inert dust)
Carbon	10 mg/cm (inert dust)

SECTION 4: HAZARD DATA

CHEMICAL NAME(S)

Polytetrafluoroethylene	CAS Registry No.	9002-84-0
	Formula:	(CF ₂ n)
	TSCA Listed:	Yes
	Carcinogen:	No
	(IARC, NTP, OSHA):	No
Graphite	CAS Registry No.	7782-42-5
	Formula:	Cx
	TSCA Listed:	Yes
	Carcinogen	No
	(IARC, NTP, OSHA):	No

SECTION 5: PHYSICAL DATA

Boiling/Melting Point @ 760mm Hg	608-644°F (320-340°C) mp (base resin)
pH	Not available
Vapor Pressure mm Hg @ 20°C	Not available
Vapor Density (Air=1)	Not available
Percent Volatile by Weight (%)	Not available

SECTION 5 CONT.

Specific Gravity or Bulk Density	2.0-2.2
Solubility in Water Evaporation Rate	Not soluble
(BuAc=1) Appearance	Not applicable
Odor	Dry powder
	None

SECTION 6: FIRE & EXPLOSION HAZARD DATA

Flash Point °F (Test Method)	Does not flash
Auto ignition Temperature	Not applicable
Flammability Limits in Air (%V)	Non-flammable
Extinguishing Media	CO2, Dry Chemical, Water Spray or fog Treat as a class B fire.
Special Fire Fighting Procedures	Extinguishing media should be suitable for the surrounding fire. Self-contained breathing apparatus with full face piece and protective clothing recommended.
Unusual Fire & Explosion Hazards	Above 750°F (399°C), fluoropolymers may undergo degradation to compounds which may be toxic and produce irritation to the skin. PTFE needs an atmosphere of 95% oxygen to burn.

SECTION 7: REACTIVITY DATA

Product Stability	Stable and inert under normal conditions. Begins to decompose very slowly at 500°F (260°C). Decomposition increases rapidly above 750°F (399°C).
Conditions to Avoid Chemical	Temperatures above 750°F (399°C).
Incompatibility Hazardous	Molten alkali metals, interhalogen compounds, and oxidizing agents.
Decomposition Products	Toxic gases of hydrogen fluoride and perfluorohydrocarbons such as tetrafluoroethylene, hexafluoropropylene, perfluoroisobutylene, carbonyl fluoride, metal oxides, and metal fluorides.
Hazardous Polymerization	Will not occur
Corrosive to metal	No
Oxidizer	No

SECTION 8: HEALTH HAZARD DATA * EFFECTS OF OVEREXPOSURE

Skin Contact	May cause mechanical irritation of the skin. Molten material has the potential to cause thermal burns.
Eye Contact	May cause mechanical irritation to the eyes. The polymer particle may act as a foreign body.
Inhalation	Cases of pulmonary fibrosis, emphysema, and corpulmonale have resulted from prolonged inhalation of carbon dust. Gases from thermal decomposition (above 480°F), can cause "polymer fume fever," which can cause flu-like symptoms.
Ingestion	If a significant quantity has been swallowed, give 1-2 glasses of water to dilute. Get immediate medical attention. May be harmful if swallowed.
Chronic Effects of Overexposure	No specific information is available.

Toxicological Test Data	No specific information is available.
Signs and Symptoms of Exposure	No specific information is available. Thermal decomposition may evolve fumes may cause "polymer fume fever," which may cause flu-like symptoms.
Carcinogenicity Information	Not applicable

SECTION 9: ENVIRONMENTAL DATA

Environmental Toxicity Data	No specific information is available.
Spill or Leak Procedure	Vacuum or wet sweep to avoid cloud dust or slipping hazard.
SARA 313 Components 40CFR 372.65	No information is available.
SARA 302 Components 40CFR 355	No information is available.
Waste Disposal Method	Landfill is preferred. Disposal methods must conform to federal, state, and local regulations. Incineration is not recommended due to the risk of generating decomposition products.
Hazardous Waste 40CFR 261	This product as shipped is not a RCRA hazardous waste under present EPA regulations.

SECTION 10: SPECIAL PROTECTION INFORMATION

Respiratory Protection	For temperatures below 500°F (260°C), use a MSHA/NIOSH approved respirator for dust. For temperatures above 500°F (260°C), use a MSHA/NIOSH approved positive pressure supplied air respirator.
Ventilation	Provide local exhaust where polymer material is heated above 500°F (260°C).
Protective Clothing	Use gloves when handling hot polymer. Use good personal hygiene. Showering and changing into street clothing after work is desirable.
Eye Protection	Safety glasses or goggles recommended. Contacts should not be worn.
Other Precautions	Do not exceed recommended temperatures to minimize release of decomposition products. Do not smoke in areas where fluoropolymer is handled. Do not bring tobacco products into the work area. Fluoropolymer on tobacco products may cause adverse health effects by inhalation of the decomposition product. Cleaning of process equipment by burning is not recommended due to the risk of generating decomposition products.

SECTION 11: EMERGENCY & FIRST AID PROCEDURES

Skin	Wash with soap and water. For contact with molten material, flush the skin immediately with large amounts of cold water. Thermal burns require immediate medical attention.
Eyes	Flush the eyes with tepid water for at least 15 minutes. Eyelids should be held away from the eye ball to ensure thorough rinsing. Contact a physician.
Ingestion	Not a probable route of exposure. If gastro-intestinal symptoms develop, consult a physician for treatment. May be harmful if swallowed.
Inhalation	Remove victim to fresh air. If a cough or influenza-like symptoms develop, consult a physician for treatment.

SECTION 12: SHIPPING DATA

D.O.T. Proper Shipping Name	Not applicable
Hazardous Substance 49CFR CERVCLA	Not regulated
D.O.T. Hazard Class	Not hazardous
D.O.T. Label Required	Not applicable
D.O.T. Placards Required	Not applicable
Poison Constituent	Not applicable
Bill of Lading Description	Plastic material

SECTION 13:

Storage & Handling	Store in cool dry place. Dust may cause skin, eye, or respiratory irritation. Use with adequate ventilation. Take suitable precautions against the discharge of static electricity during powder handling operations. Keep work area clear of dust released during process and fabrication. Store away from incompatible substances.
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SECTION 14: SUPPLIER INFORMATION

Disclaimer	To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy or completeness of such information. We strongly recommend that the user seek and adhere to the manufacturer's or supplier's current instructions for handling each material he/she uses, and that he/she satisfied himself/herself that he/she can meet all applicable safety and health standards.
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