

GEMINI

Pro-Lon PTFE Products

MATERIAL SAFETY DATA SHEET CARBON/GRAPHITE FILLED PTFE

SECTION 1:

COMPOUNDS COVERED BY THIS MSDS: CARBON/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: GemFlow, Hostafion®, Teflon®, Fluon®, Aglon®
Chemical Family: Fluorocarbon Resin
Molecular Weight: >100 Million
MSDS Code: 102

SECTION 3: HAZARDOUS INGREDIENTS/ HAZARD DATA

CHEMICAL NAME(S)	PEL/ TLV SOURCE
Polytetrafluoroethylene	10 mg/cm (inert dust)
Carbon	10 mg/cm (inert dust)
Graphite	30 MPPCF

SECTION 4: HAZARD DATA

CHEMICAL NAME(S)	CAS Registry No:	
Polytetrafluoroethylene	Formula:	9002-84-0 (CF ₂ n)
	TSCA Listed:	Yes
	Carcinogen:	No
	(IARC, NTP, OSHA):	No
Carbon	CAS Registry No:	64743-05-1
	Formula:	C
	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 @ 760 mm 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
Specific Gravity or Bulk Density	2.0-2.2
Solubility in Water	Not soluble
Evaporation Rate (BuAc=1)	Not applicable
Appearance	Dry powder
Odor	None

SECTION 6: FIRE & EXPLOSION HAZARD

Auto ignition Temperature	Not applicable
Flammability Limits in Air (%V)	Nonflammable
Extinguishing Media	CO2, Foam, Dry Chemical, or Water Spray. Treat it 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°). Fluoropolymers may under go 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	Temperatures above 750°F (399°C).
Chemical Incompatibility	Molten alkali metals, and interhalogen compounds and oxidizing agents.
Hazard 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 irritation to the eyes. The blue pigment may act as a nuisance dust. The polymer particle may act as a foreign body.
Inhalation	Inhalation of dust may cause irritation to the respiratory tract. Cases of pulmonary fibrosis, emphysema, and corpulmonale have resulted from prolonged inhalation of the polymer resin. Gases from thermal decomposition (above 480°F) may cause "polymer fume fever," which can cause flu-like symptoms.
Ingestion	If a significant quantity has been swallowed, give 2 glasses of water to dilute. Consult a physician as soon as possible. May be harmful if swallowed.
Chronic Effects of Overexposure	No specific information is available.
Toxicological Test Data	No specific information is available.

SECTION 8 CONT.

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

SECTION 9: ENVIRONMENTAL DATA

Environmental Toxicity Data	No information is available.
Spill or Leak Procedure	Vacuum or wet sweep to avoid dust cloud and also to avoid slipping hazard.
SARA 313 Components 40CFR372.65	No information is available
SARA 302 Components 40CFR355	No information is available
Waste Disposal Methods	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 40CFR261	This product as shipped is not a RCRA hazardous waste under present EPA regulations.

SECTION 10: SPECIAL PROTECTION

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 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 process temperatures to minimize release of decomposition products. Do not smoke in areas where fluoropolymer material is being handled. Do not bring tobacco products into the work area. Fluoropolymer on tobacco products may cause adverse health affects 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 CERCLA	Not regulated
D.O.T. Hazard Class	Not hazardous

SECTION 12 CONT.

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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