



MATERIAL SAFETY DATA SHEET CARBON FILLED PTFE

SECTION 1:

COMPOUNDS COVERED BY THIS SDS: CARBON 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: Chemical Hostaflon®, Teflon®, Fluon®, Aglon®
Family: Molecular Fluorocarbon Resin
Weight: >100 Million

SECTION 3: HAZARDOUS INGREDIENTS/ HAZARD DATA

| CHEMICAL NAME(S) | PEL/LV SOURCE |
|-------------------------|-----------------------|
| Polytetrafluoroethylene | 10 mg/cm (inert dust) |
| Carbon | 10 mg/cm (inert dust) |

SECTION 4:

CHEMICAL NAME(S)

| | | |
|-------------------------|--------------------|---------------------|
| Polytetrafluoroethylene | CAS Registry No. | 9002-84-0 |
| | Formula: | (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 |

SECTION 5 CONT.

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| Specific Gravity or Bulk Density | 2.0-2.2 |
| Solubility in Water | Not soluble |
| Evaporation Rate (BuAc=1) | Not applicable |

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| Appearance | Dry powder |
| Odor | None |

SECTION 6: FIRE & EXPLOSION HAZARD DATA

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| 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. |
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| Special Fire Fighting Procedures | media should be suitable for the surrounding fire. Self-contained Extinguishing |
| Special Fire Fighting Procedures | 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

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| 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

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| 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

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| 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

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| 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

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| 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. |

SECTION 12: SHIPPING DATA

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| D.O.T. Proper Shipping Name | Not applicable |
| Hazardous Substance 49CFR CERCLA | Not regulated |
| D.O.T. D.O.T Hazard Class | Not hazardous |
| D.O.T. Label Required | Not applicable |

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| D.O.T. Placards Required | Not applicable |
| Poison Constituent | Not applicable |
| Bill of Lading Description | Plastic material |

SECTION 13:

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| 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

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| Disclaimer | To the best of our knowledge the information contained in this publication is accurate; however, we do not assume any liability what so ever 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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