

AG Fluoropolymers

ASAHI GLASS FLUOROPOLYMERS USA, INC.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: FLUON TL-127
Product Code: 610127200
Trade Name: FLUON
Chemical Characterization: Powdered or granular PTFE mixture

Supplier:
 Asahi Glass Fluoropolymers USA, Inc.
 Franklin Building, Suite 300
 101 Pond's Edge Drive
 Chadds Ford, PA 19317

24 Hr. Emergency Telephone Numbers
 CHEMTREC (US) (800) 424-9300 24-Hours
 MEDICAL EMERGENCY: (877) 886-2143
 Transportation Phone (800) 424-9300
 Customer Service (800) 424-7833

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components (CAS#)	Wt. %	ACGIH TLV:	OSHA PEL:	Ceiling Limit Value:
Polytetrafluoroethylene 9002-84-0	90 - 100	None	None	None

PTFE and FEP powders fall in the category of "Particulates Not Otherwise Specified" with the following generic exposure limits: OSHA PEL: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

3. HAZARDS IDENTIFICATION

Emergency Overview: Dust from this product may be harmful if inhaled. High-heat processing may liberate toxic gases. See sections 4, 5 and 10 for more information on thermal decomposition products.

Potential Health Effects:

Inhalation: High concentrations of airborne dust may cause irritation to the respiratory tract.
Ingestion: Ingestion may cause irritation to the gastrointestinal tract.
Eye Contact: May cause irritation to the eyes due to mechanical abrasion of particles.
Skin Contact: Generally does not cause skin irritation.

Medical Conditions

Aggravated by Exposure: None known

HMIS Classification: Health: 0 flammability: 1 reactivity: 0

NFPA Rating: Health: 3 flammability: 1 reactivity: 0

4. FIRST AID MEASURES

Inhalation: Move to fresh air and monitor for symptoms. If cough or irritation develops, give a glass of water. Never give anything by mouth to an unconscious person. If symptoms persist seek medical attention.

Skin Contact: Wash material from the skin with plenty of soap and water.

Ingestion: If person is conscious, rinse mouth with water. Never give anything by mouth to an unconscious person.

FLUON TL-127

Product ID#:610127200

Effective Date:

08/02/2002

Page 1 of 6

MARKETED BY
HARWICK STANDARD
 DISTRIBUTION CORPORATION
 60 S. Selberling Street • Akron, Ohio 44305

Eye Contact:	Flush eyes with plenty of water while holding eyelids open.
Notes to Physician:	High heat processing of this product liberates thermal decomposition gases, which when inhaled can result in polymer fume fever. This condition is characterized by influenza type symptoms (fever, cough and malaise), which usually occurs within a few hours and resolves within 48 hours. Following severe exposure the patient should be kept under medical surveillance for at least 48 hours since delayed pulmonary edema may develop.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Use media suitable for surrounding fire. Product does not readily burn.
Unusual Fire and Explosion Hazards:	None known
Hazardous Decomposition Products:	See Section 10.
Flash Point (°F):	Not Applicable
Autoignition Temperature (°F):	Not applicable
Flammable Limits in Air	
Lower (%):	Not applicable
Upper (%):	Not applicable
Special Protective Equipment for Firefighters:	Wear a self-contained breathing apparatus (SCBA) to prevent inhalation of toxic thermal decomposition products.
Specific Methods:	Evacuate area and restrict access to area. Use fire fighting methods suitable for surrounding fire. This product does not readily burn. Keep containers cool with water spray if possible.

6. ACCIDENTAL RELEASE MEASURES

Containment Techniques:	Restrict area where spill occurred. Tarp spilled material if outdoors to prevent wind dispersion until clean up can occur.
Environmental Protection:	No special environmental precautions required.
Methods for Cleaning Up:	Refer to Section 8 for exposure controls. Restrict area. Ensure adequate ventilation. Gently sweep or vacuum spilled material and collect for disposal. Mop or wipe residual from surface using water.

7. HANDLING AND STORAGE

Safe Handling Precautions:	Avoid creating dust and heating above 260 °C (PTFE). If these conditions cannot be avoided, use adequate ventilation to capture dust or decomposition products at the source.
Safe Storage Conditions:	Keep containers tightly closed in a cool, well-ventilated place.
Incompatible Products:	None known

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Provide local exhaust ventilation in your process to capture dust or thermal decomposition gases at their source. Refer to the ACGIH Guide to Industrial Ventilation for design assistance.
Personal Protective Equipment	
Respiratory Protection:	Wear a NIOSH approved air-purifying respirator when needed to maintain dust exposures below the limits found in Section-2. Series-100 or HEPA filters are recommended. NOTE: A supplied-air respirator or self-contained breathing

apparatus (SCBA) must be used to protect against thermal decomposition products.

Hand Protection: Rubber gloves

Skin and Body Protection: Wear full-length work clothes to prevent skin contact. Launder on a routine basis. Do not bring work clothes home.

Eye Protection: Wear tightly-fitting safety goggles in a dusty environment.

Hygiene Measures: Avoid contact with skin, eyes and personal clothing. Do not contaminate tobacco products. Wash hands thoroughly before eating.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Appearance: Powder

Color: White

Odor: None

Ph: Neutral to slightly acidic in nature.

Boiling Point/Range: Not applicable

Melting Point/Range: 330-350 C

Specific Gravity: 2.14-2.18

Bulk Density: 300-500 grams/liter

Solubility in Water: Insoluble

Solubility in Other Solvents: Insoluble in all common solvents.

10. STABILITY AND REACTIVITY

Stability: Stable up to 380 °C measured as the temperature of the polymer (PTFE).

Polymerization: None under normal processing.

Hazardous Decomposition Products: Hydrofluoric Acid and Carbonyl Fluoride (from 400 Deg C), Tetrafluoroethylene (from 430 Deg C), Hexafluoropropylene (from 440 Deg C), Perfluoroisobutylene (from 470 Deg C) (for PTFE).

Materials to Avoid: Reacts with molten alkali metals and finely divided magnesium and aluminum at temperatures above 425 Deg. C

Conditions to Avoid: Avoid temperatures above 380 °C. Continuous use temperature should not exceed 260 °C. (PTFE)

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY AND SKIN DESIGNATION

Components (CAS#)	Wt. %	NIOSH - Selected LD50s & LC50s	ACGIH 2000 - Skin Absorption Designation
Polytetrafluoroethylene 9002-84-0	90 - 100	No Data Available	No Data Available

CHRONIC TOXICITY

Carcinogenic effects: No data is available on the product itself, however the monomer used to produce PTFE, Tetrafluoroethylene, is known to the state of California to cause cancer.

Mutagenic effects: No data is available on the product itself.

Reproductive toxicity: No data is available on the product itself.

Carcinogenic Status

Components (CAS#)	Wt. %	IARC Carcinogens	ACGIH 1999 - Carcinogens	OSHA - Select Carcinogens	NTP Eighth Report - Known Carcinogens
FLUON TL-127					

FLUON TL-127

Product ID#:610127200

Effective Date:

08/02/2002

Polytetrafluoroethylene
9002-84-0

90 - 100

Not Listed

Not Listed

Not Listed

Not Listed

12. ECOLOGICAL INFORMATION**Mobility:** The product is insoluble and sinks in water.**Polytetrafluoroethylene 90 - 100 9002-84-0**
Clean Water Act - Bioaccumulative Chemical

No data available

Ecotoxicity - Microtox Data

No data available

Ecotoxicity - Aquatic Toxicity Data

No data available

13. DISPOSAL CONSIDERATIONS**Waste from residues / unused products:**

Dispose of in accordance with federal, state and local regulations. This product is not a hazardous waste under RCRA, 40 CFR 261 in its original form. If this product is mixed with other materials and/or physically changed, it should be evaluated to assure that the resulting mixture/material does not meet the criteria for listing hazardous waste as specified in 40 CFR 261.11.

Contaminated packaging:

Empty containers should not be used for materials other than the original product. A qualified drum management or solid waste disposal contractor should be used to assure proper handling of empty containers.

14. TRANSPORT INFORMATION

Not regulated by the DOT as hazardous material as determined in 49 CFR 172.

15. REGULATORY INFORMATION**CHEMICAL INVENTORIES STATUS**

TSCA (United States):	Listed.
DSL (Canada):	Listed.
NDSL (Canada):	Listed.
EINECS (Europe):	Listed.
ELINCS (Europe):	Listed.
JENCS (Japan):	Listed.
PICCS (Philippines):	Not Listed

CALIFORNIA - PROP 65 REGULATIONS

FLUON TL-127

Product ID#:610127200

Effective Date:

08/02/2002

Components (CAS#)	Wt. %	California - Proposition 65
Polytetrafluoroethylene 9002-84-0	90 - 100	Not Listed

STATES RIGHT-TO-KNOW LISTS

Components (CAS#)	Wt. %	Pennsylvania Right to Know List:	New Jersey Right-to-Know List:
Polytetrafluoroethylene 9002-84-0	90 - 100	Not Listed.	Not Listed.

CLEAN AIR ACT REGULATIONS

Components (CAS#)	Wt. %	Accidental Release Prevention - Flammable Substances	Accidental Release Prevention - Toxic Substances	1990 Hazardous Air Pollutants
Polytetrafluoroethylene 9002-84-0	90 - 100	Not Listed.	Not Listed.	Not Listed

TSCA & CERCLA/SARA REGULATIONS

Components (CAS#)	Wt. %	TSCA - Sect. 5(a)(2) - Chemicals with SNUR	Section 313 - Emission Reporting	Section 302 - Hazardous Substances	Section 302 - EHS & TPQs
Polytetrafluoroethylene 9002-84-0	90 - 100	Not Listed.	Not Listed.	Not Listed.	Not Listed.

Sara Classification: Not Classified.

16. OTHER INFORMATION

This data sheet contains changes from the previous version in section(s):
None

Additional advice:
No additional informations.

Prepared by: AGFP Research and Technical Department

Disclaimer:
The information provided herein is related only to the specific product designated and may not be applicable where such product is used in combination with any other materials or in any process. NO REPRESENTATIONS OR WARRANTIES.

FLUON TL-127

Product ID#:610127200

Effective Date: 08/02/2002

EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE, ARE MADE HEREUNDER. The user of this product has the sole responsibility to determine the suitability of the product for any use and manner of use intended. This document may be revised after its issuance, and the user should refer to the most current version

End of safety data sheet