



AGC Chemicals Americas, Inc.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: FL1700
Product Code: 610170100
Trade Name: Fluon
Chemical Characterization: Powdered or granular PTFE mixture
Supplier: 24 Hr. Emergency Telephone Numbers
AGC Chemicals Americas, Inc. CHEMTREC (US): (800) 424-9300; MEDICAL EMERGENCY: (800) 420-8479
55 E. Uwchlan Avenue Transportation Phone: (800) 424-9300; Customer Service: (800) 424-7833
Suite 201
Exton, PA 19341

2. HAZARDS IDENTIFICATION

NFPA Rating: Health: 2, Flammability: 1, Reactivity: 0
HMIS Classification: Health: 2, Flammability: 1, Reactivity: 0
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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS-NO	Weight %	ACGIH TLV:	OSHA PEL:	Ceiling Limit:
PTFE	9002-84-0	100%	None	None	None

Notes:
See additional exposure information in Section 8.

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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.
Eye Contact:	Flush eyes with plenty of water while holding eyelids open.
Ingestion:	If person is conscious, rinse mouth with water. Never give anything by mouth to an unconscious person.
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 support combustion or flame
Unusual Fire and Explosion Hazards:	None known
Hazardous Decomposition Products:	See Section 10.
Flash Point (°F):	Not applicable
Flash Point (°C):	Not applicable
Autoignition Temperature (°F):	Not applicable
Flammable Limits in Air	
Lower (%):	Not applicable
Upper (%):	Not applicable
Firefighter Protective Equipment:	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. 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.

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.

Hand Protection: Rubber gloves

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.

Exposure Limit Particulates (Not Otherwise Regulated) with the following generic exposure limits: OSHA PEL: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

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.

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder or granular material	Physical State:	Solid
Color:	Not applicable	Odor:	Not applicable
Flash Point (°F):	Not applicable	Boiling Point/Range:	Not applicable
Melting Point/Range:	Not applicable	Vapor Pressure:	Not applicable
Vapor Density:	Not applicable	Solubility in Water:	Insoluble
Solubility in Other Solvents:	Insoluble in all common solvents.		

10. STABILITY AND REACTIVITY

Stability: Decomposes in open air or in nitrogen above 400 °C

Conditions to Avoid: To avoid thermal decomposition, do not overheat.

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

Hazardous Decomposition Products: Thermal decomposition of this product (at temperatures above 300C.) will generate hydrogen fluoride, which is corrosive.

Polymerization: None under normal processing.

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11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY AND SKIN DESIGNATION

Component Name	CAS-NO	NIOSH - Selected LD50s & LC50s	ACGIH 2000 - Skin Absorption Designation
PTFE	9002-84-0	45 - Inhalation LC50 Rat (mg/m)	No Data Available

CHRONIC TOXICITY

CARCINOGENIC STATUS

Carcinogenic effects: 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.

Component Name	IARC Carcinogens	ACGIH 1999 - Carcinogens	OSHA - Select Carcinogens	NTP Eighth Report - Known Carcinogens
PTFE	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Mobility: The product is insoluble and sinks in water.

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

U.S. Department of Transportation DOT - Substances From 49 CFR 172.101

DOT Classification: Not regulated

Air transport

ICAO/IATA

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15. REGULATORY INFORMATION

CALIFORNIA - PROP 65 REGULATIONS

Component Name	CAS-NO	California - Proposition 65
PTFE	9002-84-0	Not Listed

CLEAN AIR ACT REGULATIONS

Component Name	Accidental Release Prevention - Flammable Substances	Accidental Release Prevention - Toxic Substances	1990 Hazardous Air Pollutants	Section 302 EHS & TPQs	Section 313 Emission Reporting	Section 302 Hazardous Substances
PTFE	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

CHEMICAL INVENTORIES STATUS

Component Name	TSCA (United States):	Canadian DSL and NDSL Listing	EINECS (Europe):	JENCS (Japan):	KOREA (Korea):	PICCS (Philippines):
PTFE	Listed	On DSL	Listed	6-939	KE-33429	Listed

Restricted or Prohibited in Electrical Equipment (2002/95/EC) This product complies with EU RoHS

STATES RIGHT-TO-KNOW LISTS

Component Name	New Jersey Right-to-Know List:	Pennsylvania Right to Know List:
PTFE	Not Listed.	Present

TSCA & CERCLA/SARA REGULATIONS

Sara Classification: Not Classified.

Component Name	TSCA - Sect. 5(a)(2) - Chemicals with SNUR	TSCA section 12(b) export notification
PTFE	Not Listed	Not Listed

CANADA REGULATIONS

Component Name	Canada - WHMIS: Classifications of Substances	Canada - WHMIS: Ingredient Disclosure
PTFE	Uncontrolled product according to WHMIS classification criteria	

16. OTHER INFORMATION

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

Additional advice: Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end-use.

Prepared by: AGCCA Research & Development

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End of safety data sheet

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