

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	
Product Code:	
Trade Name:	
Chemical Characterization:	

FLUON TL-5

611005100 FLUON Powdered or granular PTFE mixture

Supplier:

AGC Chemicals Americas, Inc. 229 East 22nd Street Bayonne, NJ 07002 **24 Hr. Emergency Telephone Numbers** CHEMTREC (US) (800) 424-9300 24 hours MEDICAL EMERGENCY: (800) 420-8479 Transportation Phone (800) 424-9300 Customer Service (800) 424-7833

(CAS#)	Ceiling Limi Value:
Polytetrafluoroethylene 90 - 100 None None 9002-84-0	None

See additional exposure Information in Section 8.

3. HAZARDS IDENTIFICA	TION		
NFPA Rating:	Health: 2, Flammability: 1, Reactive	vity: 0	
HMIS Classification:	Health: 2, Flammability: 1, Reactiv	vity: 0	
Emergency Overview:	Dust from this product may be ha liberate toxic gases. See sections decomposition products.		
Potential Health Effects:			
Skin Contact:	Generally does not cause skin irri	tation.	
Eye Contact:	May cause irritation to the eyes d	ue to mechanical abrasion of	particles.
Ingestion:	Ingestion may cause irritation to the gastrointestinal tract.		
Inhalation:	High concentrations of airborne dust may cause irritation to the respiratory tract.		
Medical Conditions			
Aggravated by Exposure:	None known		
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:			
Ingestion:	Wash material from the skin with plenty of soap and water. If person is conscious, rinse mouth with water. Never give anything by mouth to		
FLUON TL-5	Product ID#:611005100	Effective Date:	06/08/2005

Page 1 of 6

MARKETED BY HARWICK STANDARD DISTRIBUTION CORPORATION 60 S. Seiberling Street • Akron, Ohio 44305 Eye Contact: Notes to Physician: an unconscious person. Flush eyes with plenty of water while holding eyelids open. 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 suveillance 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: Hazardous Decomposition	None known
Products: Flash Point (°F):	See Section 10.
Autoignition Temperature (°F): Flammable Limits in Air	Not applicable
Lower (%): Upper (%):	Not applicable 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 occured. Tarp spilled material if outdoors to prevent wind dispersion until clean up can occur.
Environmental Protection: Methods for Cleaning Up:	No special environmental precautions required. 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 you decomposition gases at their source. R Ventilation for design assistance.		
Personal Protective Equipment Respiratory Protection:	Wear a NIOSH approved air-purifying r	espirator when needed	to maintain dust
FLUON TL-5	Product ID#:611005100	Effective Date:	06/08/2005

Page 2 of 6

	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:	Powde
Color:	White
Odor:	None
Ph:	Neutra
Boiling Point/Range:	Not ap
Melting Point/Range:	320 - 3
Specific Gravity:	2.14-2
Bulk Density:	300-6
Solubility in Water:	Insolu
Solubility in Other Solvents:	Insolu

Powder White None Neutral to slightly acidic in nature. Not applicable 320 - 345 C 2.14-2.18 300-600 grams/liter Insoluble Insoluble in all common solvents.

10. STABILITY AND REACTIVITY

Stability: Polymerization: Hazardous Decomposition Products:	Stable up to 380 °C measured as the temperature of the polymer (PTFE). None under normal processing. Heated above 400 Deg C (750 F) can evolve as degradation products of Hydrofluoric Acid and Carbonyl Fluoride (from 400 Deg C), Tetrafluoroethylene (from 430 Deg C), Hexafluoropropylene (from 440 Deg C), Perfluoroisobutylene (from 470 Deg C)
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 At	osorption Designation
Polytetrafluoroethylene 9002-84-0	90 - 100	= 45 mg/m³ Inhalation LC50 Rat 30 min		No Data	Available
CHRONIC TOXICITY Carcinogenic effects:		ta is available on the product itself, h			
Mutagenic effects: Reproductive toxicity:	No dat	Tetrafluoroethylene, is known to the ta is available on the product itself. ta is available on the product itself.	e state of	f California to	o cause cancer.
FLUON TL-5	Produ	ct ID#: 611005100 Page 3 of 6	Effectiv	e Date:	06/08/2005

Carcinogenic Status					
Components	Wt. %	IARC Carcinogens	ACGIH 1999 -	OSHA - Select	NTP Eighth Report -
(CAS#)			Carcinogens	Carcinogens	Known Carcinogens
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):	
DSL (Canada):	
NDSL (Canada):	
EINECS (Europe):	
ELINCS (Europe):	
JENCS (Japan):	
PICCS (Philippines):	

FLUON TL-5

Product ID#:611005100 Page 4 of 6

Listed. Listed. Listed. Listed. Listed. Listed. Not Listed.

Effective Date:

06/08/2005

CALIFORNIA - PROP 65 REGULATIONS

Components	Wt. %	California - Proposition 65		
(CAS#) 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	Present	Not Listed.		

CLEAN AIR ACT REGULATIONS

Components (CAS#)	Wt. %	Accidental Release Prevention - Flammable	Accidental Release Prevention - Toxic Substances	1990 Hazardous Air Pollutants
Polytetrafluoroethylene 9002-84-0	90 - 100	Substances 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:	N	ot Classified.
Components (CAS#)	Wt. %	Canadian DSL and NDSL Listing
Polytetrafluoroethylene 9002-84-0	90 - 100	on DSL

16. OTHER INFORMATION

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

Additional advice:

FLUON TL-5

Product ID#:611005100 Page 5 of 6 Effective Date:

06/08/2005

No additional informations.

Prepared by: AGFP Research and Technical Department

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End of safety data sheet

FLUON TL-5

Product ID#:611005100 Page 6 of 6 Effective Date:

06/08/2005