

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** 

**FLUON FL1650** 

**Product Code:** 

611165400

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.

Eve Contact:

May cause irritation to the eyes due to mechanical abrasion of particles.

**Skin Contact:** 

Generally does not cause skin irritation.

**Medical Conditions Aggravated** 

None known

by Exposure:

# 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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# HARWICK STANDARD DISTRIBUTION CORPORATION

60 S. Seiberling Street • Akron, Ohio 44305

# 4. FIRST AID MEASURES

Move to fresh air and monitor for symptoms. If cough or irritation develops, give a glass of Inhalation:

water. Never give anything by mouth to an unconscious person. If symptoms persist seek

medical attention.

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

Flush eyes with plenty of water while holding eyelids open. **Eve Contact:** 

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

unconscious person.

High heat processing of this product liberates thermal decomposition gases, which when Notes to Physician:

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

Use media suitable for surrounding fire. Suitable Extinguishing Media:

Product does not support combustion or flame

None known **Unusual Fire and Explosion** 

Hazards:

**Hazardous Decomposition** 

See Section 10.

**Products:** 

Not applicable Flash Point (°F): Not applicable Flash Point (°C): Not applicable

Autoignition Temperature (°F):

Flammable Limits in Air

Not applicable Lower (%): Not applicable **Upper (%):** 

Firefighter Protective Equipment: Wear a self-contained breathing apparatus (SCBA) to prevent inhalation of toxic thermal

decomposition products.

Evacuate area and restrict access to area. **Specific Methods:** 

Use fire fighting methods suitable for surrounding fire. product does not readily burn. Keep

containers cool with water spray if possible.

# ACCIDENTAL RELEASE MEASURES

Restrict area where spill occured. Tarp spilled material if outdoors to prevent wind dispersion **Containment Techniques:** 

until clean up can occur.

No special environmental precautions required. **Environmental Protection:** 

Refer to Section 8 for exposure controls. Restrict area. Ensure adequate ventilation. Gently Methods for Cleaning Up:

sweep or vacuum spilled material and collect for disposal. Mop or wipe residual from surface

using water.

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Provide local exhaust ventilation in your process to capture dust or thermal decomposition **Engineering Controls:** 

gases at their source. Refer to the ACGIH Guide to Industrial Ventilation for design

assistance.

**Hand Protection:** 

**Eve Protection:** 

Rubber gloves

Wear tightly-fitting safety goggles in a dusty environment.

Avoid contact with skin, eyes and personal clothing. Do not contaminate tobacco products. Hygiene Measures:

Wash hands thoroughly before eating.

Particulates (Not Otherwise Regulated) with the following generic exposure limits: OSHA **Exposure Limit** 

PEL: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

Personal Protective Equipment:

Wear a NIOSH approved air-purifying respirator when needed to maintain dust exposures **Respiratory Protection:** 

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.

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

bring work clothes home.

7. HANDLING AND STORAGE

Avoid creating dust and heating above 260°C (PTFE). If these conditions cannot be avoided, Safe Handling Precautions:

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 on 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** 

Thermal decomposition of this product (at temperatures above 300C.) will generate hydrogen

Products:

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 mg/m <sup>3</sup> Inhalation LC50 Rat 30 min	No Data Available

#### CHRONIC TOXICITY

Carcinogenic effects:

Tetrafluoroethylene, is known to the state of California to cause cancer.

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

#### **CARCINOGENIC STATUS**

Component Name	IARC Carcinogens	ACGIH 1999 - Carcinogens	OSHA - Select Carcinogens	NTP Eighth Report - Known Carcinogens
PTFF	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

**DOT Classification:** 

Not regulated

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#### **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 302 Hazardous Substances
PTFE	Not Listed	Not Listed	Not Listed	Not LIsted	Not Listed.	Not Listed.

#### **CHEMICAL INVENTORIES STATUS**

Component Name	TSCA (United States):	EINECS (Europe):	JENCS (Japan):	PICCS (Philippines):	Canadian DSL and NDSL Listing
PTFE	Listed	Listed	Listed	Listed	on DSL

# 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.	Not Listed.

#### TSCA & CERCLA/SARA REGULATIONS

Sara Classification:

Not Classified.

Component Name	TSCA - Sect. 5(a)(2) - Chemicals with SNUR
PTFE	Not Listed

## 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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