

# SAFETY DATA SHEET

**Product name:** Everflon™ ETFE Fluoroplastic

**Grade/Type:** C4003

**Revision Date:** 10/01/2026

**Supplier:** Wuhan Everflon Fluoropolymers Co., Ltd.

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

- **Product Name:** Everflon™ ETFE Fluoroplastic
- **Product Grade/Type:** C4003
- **Product Use:** Plastic material for further processing (Extrusion, Molding)
- **Restrictions on Use:** Do not use in medical applications involving permanent implantation in the human body.
- **Manufacturer/Supplier:**  
Wuhan Everflon Fluoropolymers Co., Ltd.  
Wuhan, Hubei Province, China
- **Emergency / Contact Telephone:** 0086-185-7168-9228

## SECTION 2. HAZARDS IDENTIFICATION

- **OSHA Hazard Communication Standard 2012:** Not classified as a hazardous substance or mixture.
- **Other hazards:**  
The thermal decomposition vapours of fluorinated plastics may cause polymer fume fever with flu-like symptoms (chills, fever, cough, muscle aches) in humans, especially when smoking contaminated tobacco. Molten material can cause severe thermal burns.

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

- **Chemical Nature:** Ethylene-tetrafluoroethylene copolymer (ETFE) compound.
- **Components:** This product does not contain any components that require disclosure under OSHA HazCom 2012. Contains Carbon Black (bound within the polymer matrix) where applicable for conductive grades.

## SECTION 4. FIRST AID MEASURES

- **General Advice:** Never give anything by mouth to an unconscious person.
- **Inhalation:** Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Consult a physician.
- **Skin Contact:** Wash off with soap and water. Cool skin rapidly with cold water after contact with molten material. Do not peel polymer from skin. Consult a physician immediately.

- **Eye Contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Get medical attention if irritation persists.
- **Ingestion:** Not a probable route of exposure. In case of accidental ingestion, consult a physician.
- **Notes to Physician:** Treat symptomatically.

## SECTION 5. FIREFIGHTING MEASURES

- **Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>), Dry powder, Foam, Water spray.
- **Specific Hazards:** Hazardous thermal decomposition products under fire conditions: Hydrogen fluoride (HF), Carbonyl fluoride, Acid fluorides, Carbon monoxide (CO).
- **Special Protective Equipment for Firefighters:** Wear self-contained breathing apparatus (SCBA) and full protective gear. Wear neoprene gloves during clean-up work after fire.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Ventilate the area. Spilled pellets create a slip hazard. Use appropriate personal protective equipment.
- **Environmental Precautions:** No special environmental precautions required. Prevent spillage into waterways.
- **Cleanup Methods:** Sweep up and shovel into suitable containers for disposal or recovery.

## SECTION 7. HANDLING AND STORAGE

- **Handling:** Avoid breathing dust and processing fumes. Provide adequate exhaust ventilation at dryers, extruders, and molding machines. Avoid contamination of tobacco products. Wash hands before breaks and immediately after handling.
- **Storage:** Keep containers tightly closed in a dry, cool, and well-ventilated area. Protect from contamination.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Engineering Controls:** Good general ventilation and local exhaust at high-temperature processing zones.
- **Personal Protective Equipment (PPE):**
  - **Respiratory:** Wear certified respirator if dust/fume concentrations exceed limits.
  - **Eyes:** Safety glasses with side shields.
  - **Skin & Body:** Heat-resistant gloves and protective clothing when handling molten polymer.
- **Exposure Limits:**
  - Particulates Not Otherwise Regulated (OSHA PEL): 15\text{ mg/m}^3 (Total

dust), 5\text{ mg/m}^3 (Respirable fraction).

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Solid pellets (Black)
- **Odor:** Odorless
- **Melting Point:** 255 - 280°C
- **Density:** \approx 1.7g/cm<sup>3</sup>
- **Solubility in Water:** Insoluble
- **Auto-ignition Temperature:** 510 - 515°C

## SECTION 10. STABILITY AND REACTIVITY

- **Reactivity & Stability:** Stable under recommended storage conditions.
- **Possibility of Hazardous Reactions:** None under normal processing. Overheating may release toxic and irritating fumes.
- **Conditions to Avoid:** Overheating (temperatures above processing limits).
- **Incompatible Materials:** Finely divided metals (e.g., aluminum powder), potent oxidizers (F<sub>2</sub>).
- **Hazardous Decomposition Products:** Hydrogen fluoride, Carbonyl fluoride, Fluorinated hydrocarbons.

## SECTION 11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity:** No data available. Non-toxic under normal ambient handling.
- **Carcinogenicity:** Carbon Black (CAS# 1333-86-4) is classified as IARC 2B. However, in this product, it is fully encapsulated in polymer matrix and poses no inhalation hazard under normal handling.

## SECTION 12. ECOLOGICAL INFORMATION

- **Ecotoxicity:** No known ecological toxicity. Insoluble in water.
- **Persistence & Degradability:** Highly stable; not readily biodegradable.

## SECTION 13. DISPOSAL CONSIDERATIONS

- **Waste Disposal:** Can be recycled or disposed of in compliance with local regulations. Incineration only in facilities equipped with exhaust gas scrubbers for acidic fumes (HF).

## SECTION 14. TRANSPORT INFORMATION

- **DOT / IMDG / IATA:** Not regulated as dangerous goods.

## SECTION 15. REGULATORY INFORMATION

- **TSCA:** All components are listed or compliant.
- **SARA 313:** Contains no chemicals subject to Section 313 reporting.
- **California Prop. 65:** WARNING: Contains Carbon Black (airborne unbound

particles of respirable size, applicable if pulverized).

## **SECTION 16. OTHER INFORMATION**

- **NFPA 704:** Health: 2, Flammability: 1, Instability: 0.