

SAFETY DATA SHEET

Product name: Everflon™ ETFE Fluoroplastic

Grade/Type: C4010

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:** C4010
- **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 (CO₂), 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/cm³
- **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 (F₂).
- **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.