

# SAFETY DATA SHEET

**Product Name:** Everflon™ FEP Fluoroplastic Resin

**Grade/Type:** PF4610

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

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

## SECTION 1. IDENTIFICATION

- **Product Name:** Everflon™ FEP Fluoroplastic Resin PF4610
- **Recommended Use:** Resin for molding and/or extrusion (wire and cable, tubing, films).
- **Restrictions on Use:** For industrial use only. Do not use in medical applications involving permanent implantation in the human body or contact with internal body fluids or tissues.
- **Manufacturer/Supplier:**  
Wuhan Everflon Fluoropolymers Co., Ltd.  
Wuhan, Hubei Province, China
- **Telephone / Emergency Phone:** 0086-185-7168-9228

## SECTION 2. HAZARDS IDENTIFICATION

- **GHS Classification (29 CFR 1910.1200):** Not classified as a hazardous substance or mixture.
- **GHS Label Elements:** No hazard pictogram, signal word, hazard statements, or precautionary statements required.
- **Other Hazards:**  
Thermal decomposition vapors may cause polymer fume fever with flu-like symptoms (chills, fever, cough, shortness of breath, muscle aches) in humans, especially when smoking contaminated tobacco. Molten polymer causes severe thermal burns. Spilled pellets present a slipping hazard.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

- **Substance/Mixture:** Polymer (Fluorinated ethylene propylene copolymer / FEP).
- **Components:** Contains no hazardous ingredients requiring disclosure under OSHA HazCom 2012.

## SECTION 4. FIRST AID MEASURES

- **Inhalation:** If inhaled fumes from overheating, remove to fresh air. Get medical attention if symptoms occur.
- **Skin Contact:** Wash with water and soap as a precaution. In case of contact with molten material, immediately cool skin with cold water. Do not attempt to peel

polymer from skin. Get medical attention immediately.

- **Eye Contact:** Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
- **Ingestion:** If swallowed, DO NOT induce vomiting. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.
- **Most Important Symptoms/Effects:** Polymer fume fever (flu-like symptoms).
- **Notes to Physician:** Treat symptomatically and supportively.

## SECTION 5. FIREFIGHTING MEASURES

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>), dry chemical.
- **Unsuitable Extinguishing Media:** None known.
- **Specific Hazards During Firefighting:** Exposure to combustion/pyrolysis products may be a hazard to health.
- **Hazardous Combustion Products:** Hydrogen fluoride (HF), carbonyl difluoride (COF<sub>2</sub>), perfluoroisobutylene (PFIB), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).
- **Special Protective Equipment for Firefighters:** Wear self-contained breathing apparatus (SCBA) and full protective bunker gear. Wear neoprene gloves when handling fire debris.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Use personal protective equipment (Section 8). Spilled pellets represent a severe slip hazard.
- **Environmental Precautions:** Avoid release to the environment. Prevent leakage into waterways or sewer systems.
- **Methods for Cleaning Up:** Sweep up or vacuum spillage and collect in a suitable labeled container for disposal or recycling.

## SECTION 7. HANDLING AND STORAGE

- **Handling:** Use only with adequate ventilation. Do not breathe thermal decomposition fumes. Prevent pellet spillage. Prohibit smoking in work areas; avoid contamination of tobacco products with fluoropolymer dust. Wash hands thoroughly before breaks and after handling.
- **Storage:** Keep in properly labeled, tightly closed containers in a cool, dry, well-ventilated location away from strong oxidizing agents.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Workplace Control Parameters:** Contains no substances with established occupational exposure limit values.
- **Decomposition Products Control Parameters:**
  - *Hydrogen fluoride (CAS 7664-39-3):* ACGIH TLV: TWA 0.5 ppm, Ceiling 2

ppm. OSHA PEL: TWA 3 ppm.

- *Carbonyl difluoride* (CAS 353-50-4): ACGIH TLV: TWA 2 ppm, STEL 5 ppm.
- **Engineering Measures:** Ensure adequate general and local exhaust ventilation at hot processing machines (extruders, molding barrels).
- **Personal Protective Equipment (PPE):**
  - **Respiratory:** Use NIOSH-approved air-purifying or air-supplied respirator if fumes/dust exceed exposure levels or during high-temperature ventilation failure.
  - **Hand Protection:** Heat-resistant gloves when handling molten material.
  - **Eye Protection:** Safety glasses with side shields.
  - **Skin & Body:** Wash exposed skin after handling.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Solid pellets, granules (White / Translucent)
- **Odor:** Odorless
- **Melting Point:**  $>250^{\circ}\text{C}$  ( $>482^{\circ}\text{F}$ )
- **Flash Point / Auto-ignition:** Not applicable / High thermal resistance
- **Density:** 2.1 - 2.2g/cm<sup>3</sup>
- **Water Solubility:** Insoluble
- **Explosive Properties:** Not explosive; not expected to form explosive dust-air mixtures.

## SECTION 10. STABILITY AND REACTIVITY

- **Reactivity:** Not classified as a reactivity hazard.
- **Chemical Stability:** Stable under recommended storage and handling conditions.
- **Possibility of Hazardous Reactions:** Can react with strong oxidizing agents. Hazardous decomposition occurs at elevated processing temperatures ( $>380^{\circ}\text{C}$ ).
- **Conditions to Avoid:** Prolonged overheating above recommended processing range.
- **Incompatible Materials:** Strong oxidizing agents, molten alkali metals.
- **Hazardous Decomposition Products:** Hydrogen fluoride, carbonyl difluoride, carbon oxides, perfluoroisobutylene.

## SECTION 11. TOXICOLOGICAL INFORMATION

- **Likely Routes of Exposure:** Inhalation of process fumes, skin/eye contact with solid/molten polymer.
- **Acute/Chronic Toxicity:** Non-toxic in ambient solid form. Overheated fumes cause polymer fume fever.
- **Carcinogenicity:** No component present at  $\geq 0.1\%$  is identified as a probable, possible, or confirmed human carcinogen by IARC, NTP, or OSHA.

## SECTION 12. ECOLOGICAL INFORMATION

- **Ecotoxicity & Persistence:** Insoluble in water. Biologically inert and non-biodegradable. No known aquatic toxicity.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

- **Waste from Residues:** Dispose of in accordance with local and national environmental regulations. Mechanical recycling preferred. Incineration only in specialized units equipped with acidic gas (HF) scrubbers. Do not dispose of into sewers.

## **SECTION 14. TRANSPORT INFORMATION**

- **DOT / IMDG / IATA / UNRTDG:** Not regulated as a dangerous good.

## **SECTION 15. REGULATORY INFORMATION**

- **TSCA:** All components are listed on or compliant with the TSCA Inventory.
- **SARA 311/312 / SARA 313:** No SARA hazards. Contains no chemicals subject to Section 313 reporting.
- **California Prop. 65:** This product is not formulated with PFOA/PFOS. However, Trace impurities may exist at background environmental levels.

## **SECTION 16. OTHER INFORMATION**

- **NFPA 704:** Health: 0, Flammability: 1, Instability: 0. (Processing fume hazard: Health 2).