

SAFETY DATA SHEET

Product Name: Everflon™ FEP Fluoroplastic Resin

Grade/Type: PF4622

Revision Date: 10/01/2026

Supplier: Wuhan Everflon Fluoropolymers Co., Ltd.

SECTION 1. IDENTIFICATION

- **Product Name:** Everflon™ FEP Fluoroplastic Resin PF4622
- **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 (CO₂), 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 (COF₂), perfluoroisobutylene (PFIB), carbon monoxide (CO), carbon dioxide (CO₂).
- **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/cm³
- **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).