

SAFETY DATA SHEET

Product Name: Everflon™ ETFE Cross-linkable Resin

Grade/Type: XL40

Revision Date: 10/04/2026

Supplier: Wuhan Everflon Fluoropolymers Co., Ltd.

SECTION 1. IDENTIFICATION

- **Product Name:** Everflon™ ETFE Cross-linkable Resin XL40
- **Recommended Use:** Cross-linkable natural ETFE concentrate for wire and cable extrusion, industrial molding.
- **Restrictions on Use:** For use in the industrial plastic industry only. Do not use in medical applications involving implantation in the human body or contact with internal body fluids or tissues.
- **Manufacturer/Supplier:**
Wuhan Everflon Fluoropolymers Co., Ltd.
Wuhan, Hubei Province, China
- **Emergency / Contact Telephone:** 0086-185-7168-9228

SECTION 2. HAZARDS IDENTIFICATION

- **GHS Classification (29 CFR 1910.1200):**
 - Acute toxicity (Oral): Category 4 (H302)
 - Specific Target Organ Toxicity - Repeated Exposure (Inhalation of fumes): Category 2 (H373)
- **GHS Label Elements:**
 - **Signal Word:** Warning
 - **Hazard Pictograms:**
 - Exclamation mark (GHS07)
 - Health hazard (GHS08)
 - **Hazard Statements:**
 - H302: Harmful if swallowed.
 - H373: May cause damage to respiratory system through prolonged or repeated exposure to process fumes or vapors.
 - **Precautionary Statements:**
 - **Prevention:** P260 Do not breathe dust/fume/gas/mist/vapours. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
 - **Response:** P301+P312+P330 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. P314 Get medical advice/attention if you feel unwell.

- **Disposal:** P501 Dispose of contents and container to an approved waste disposal plant.
- **Other Hazards:**
 - Thermal decomposition vapors of fluorinated plastics may cause polymer fume fever with flu-like symptoms (chills, fever, cough, muscle aches) in humans, especially when smoking contaminated tobacco.
 - Processing releases fumes which can cause eye and respiratory tract irritation.
 - Dust contact with the skin can cause mechanical irritation or drying. Molten material causes severe thermal burns.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

- **Substance / Mixture:** Mixture

Component Name	CAS Number	Concentration (Weight %)
Ethylene Tetrafluoroethylene Copolymer (ETFE)	68258-85-5	90% - 99%
Triallyl Isocyanurate (TAIC / Crosslinking Agent)	1025-15-6	1% - 10%

SECTION 4. FIRST AID MEASURES

- **General Advice:** In case of accident or if you feel unwell, seek medical advice immediately.
- **If Inhaled:** Remove to fresh air. Get medical attention if breathing is difficult or symptoms occur.
- **In Case of Skin Contact:** Wash with soap and water. In case of contact with molten polymer, immediately cool skin with cold water. Do not attempt to peel polymer from skin. Get immediate medical attention.
- **In Case of Eye Contact:** Flush eyes with clean water. Get medical attention if irritation develops and persists.
- **If Swallowed:** DO NOT induce vomiting. Rinse mouth thoroughly and drink plenty of water. Call a physician or poison control center.
- **Most Important Symptoms and Effects:** Respiratory irritation, Polymer Fume Fever, harmful if swallowed.
- **Notes to Physician:** Treat symptomatically and supportively.

SECTION 5. FIREFIGHTING MEASURES

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, carbon dioxide (CO_2), dry chemical.
- **Unsuitable Extinguishing Media:** None known.
- **Specific Hazards During Firefighting:** Exposure to combustion products may be hazardous to health.
- **Hazardous Combustion Products:** Hydrogen fluoride (HF), carbonyl difluoride (COF_2), hydrogen cyanide (HCN), nitrogen oxides (NO_x), carbon oxides (CO , CO_2), and potentially toxic fluorinated compounds.
- **Special Protective Equipment for Firefighters:** Wear self-contained breathing apparatus (SCBA) and complete bunker protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Follow safe handling advice (Section 7) and PPE recommendations (Section 8). Spilled pellets create a slip hazard.
- **Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Avoid discharge into waterways, sewers, or the environment.
- **Methods for Cleaning Up:** Sweep or vacuum up spillage and collect in suitable closed containers for disposal or recovery.

SECTION 7. HANDLING AND STORAGE

- **Technical Measures & Ventilation:** Processing releases hazardous decomposition compounds. Ensure adequate local exhaust ventilation at extruder dies and barrels.
- **Advice on Safe Handling:** Do not breathe fumes or dust. Handle in accordance with good industrial hygiene. Do not eat, drink, or smoke when using this product. Keep container closed when not in use. Prohibit smoking in work areas to avoid contamination of tobacco. Wash hands thoroughly before breaks and after handling.
- **Conditions for Safe Storage:** Keep in properly labeled containers. Store in a cool, dry, well-ventilated place away from direct sunlight, ultraviolet (UV) light, and incompatible materials.
- **Materials to Avoid:** Strong oxidizing agents, strong reducing agents.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Ingredients with Workplace Control Parameters:** Contains no substances with established base occupational exposure limits.
- **Occupational Exposure Limits of Thermal Decomposition Products:**
 - *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.

- *Carbon monoxide (CAS 630-08-0)*: ACGIH TLV: TWA 25 ppm. OSHA PEL: TWA 50 ppm.
- **Engineering Measures:** Ensure adequate mechanical and local exhaust ventilation over high-temperature zones to keep airborne concentrations below exposure limits.
- **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** Where concentrations exceed limits or during extrusion startup, wear NIOSH/MSHA-approved air-purifying respirators equipped with organic vapor/acid gas cartridges or positive pressure supplied air respirators.
 - **Hand Protection:** Heat-resistant gloves when handling molten or hot polymer.
 - **Eye Protection:** Safety glasses with side shields.
 - **Skin and Body Protection:** Appropriate industrial workwear; wash skin after contact.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Solid plastic pellets
- **Color:** Off-white, translucent
- **Odor:** Waxy, mild alcohol-like
- **pH:** No data available
- **Melting Point/Range:** >245°C
- **Flash Point:** Product does not flash
- **Flammability (solid, gas):** Not classified as a flammability hazard
- **Density:** 1.7 g/cm³
- **Water Solubility:** Insoluble
- **Auto-ignition Temperature:** No data available
- **Explosive Properties:** Not explosive

SECTION 10. STABILITY AND REACTIVITY

- **Reactivity:** Not classified as a reactivity hazard.
- **Chemical Stability:** Stable under recommended storage and processing conditions.
- **Possibility of Hazardous Reactions:** Can react with strong oxidizing agents. Hazardous decomposition occurs at elevated temperatures.
- **Conditions to Avoid:** Exposure to direct sunlight, ultraviolet (UV) light, and temperatures exceeding recommended extrusion limits.
- **Incompatible Materials:** Strong oxidizing agents, strong reducing agents.
- **Hazardous Decomposition Products:** Hydrogen fluoride, carbonyl difluoride, hydrogen cyanide, carbon oxides, nitrogen oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

- **Likely Routes of Exposure:** Inhalation of extrusion fumes, skin contact, ingestion,

eye contact.

- **Acute Oral Toxicity:** Category 4: Harmful if swallowed (due to crosslinking additive content).
- **Skin Corrosion/Irritation:** May cause mild mechanical skin irritation.
- **Serious Eye Damage/Irritation:** Process fumes and dust can cause mechanical eye irritation.
- **Respiratory Sensitization:** Extrusion fumes cause respiratory irritation.
- **Carcinogenicity:** No component of this product present at >0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC, NTP, or OSHA.
- **STOT - Repeated Exposure:** Category 2: Prolonged exposure to processing fumes may cause damage to the respiratory system.

SECTION 12. ECOLOGICAL INFORMATION

- **Ecotoxicity:** Prolonged exposure may be harmful to aquatic organisms and aquatic plants.
- **Persistence and Degradability:** The polymer matrix is non-biodegradable and chemically inert in water.
- **Bioaccumulative Potential:** No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

- **Waste from Residues:** Dispose of in accordance with federal, state, and local environmental regulations. Incinerate only in licensed facilities equipped with exhaust scrubbers capable of removing acidic fluorinated and nitrogenous combustion products.
- **Contaminated Packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

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

SECTION 15. REGULATORY INFORMATION

- **TSCA:** All components are listed or compliant.
- **SARA 302 / 313:** Contains no chemicals subject to Section 302 EHS TPQ or Section 313 reporting.
- **SARA 311/312:** Acute health hazard, Chronic health hazard.
- **California Prop. 65:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or reproductive harm.

SECTION 16. OTHER INFORMATION

- **NFPA 704:** Health: 1, Flammability: 1, Instability: 0.
- **HMIS® IV:** Health: 1*, Flammability: 1, Physical Hazard: 0.