

# SAFETY DATA SHEET

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

**Grade/Type:** GS40

**Revision Date:** 10/04/2026

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

## SECTION 1. IDENTIFICATION

- **Product Name:** Everflon™ ETFE Fluoroplastic Resin GS40
- **Recommended Use:** Resin for moulding and/or extrusion (industrial coating, rotomoulding, electrostatic spraying, wire & cable, film, linings).
- **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
- **Emergency / Contact Telephone:** 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 statement(s), or precautionary statement(s) required.
- **Other Hazards:**
  - Thermal decomposition vapors of fluorinated plastics may cause polymer fume fever with flu-like symptoms (chills, fever, cough, chest tightness, muscle aches) in humans, especially when smoking contaminated tobacco.
  - Dust contact with eyes or skin can cause mechanical irritation or drying of the skin.
  - Molten material causes severe thermal burns.
  - Spilled powder/pellets create a serious slipping hazard.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

- **Substance / Mixture:** Substance
- **Chemical Nature / Name:**  
Poly(Ethylene/3,3,4,4,5,5,6,6,6-Nonafluoro-1-Hexene/Tetrafluoroethylene)
- **CAS-No.:** 68258-85-5
- **Concentration:** 100%
- **Components:** Contains no hazardous ingredients requiring disclosure under OSHA HazCom 2012.

## SECTION 4. FIRST AID MEASURES

- **General Advice:** In case of accident or if you feel unwell, seek medical advice immediately.
- **If Inhaled:** If inhaled, remove to fresh air. Get medical attention if symptoms occur.
- **In Case of Skin Contact:** Wash with water and soap. In case of contact with molten material, immediately cool skin with plenty of cold water. Do not attempt to peel polymer from skin. Get medical attention immediately.
- **In Case of Eye Contact:** Rinse well with water as a precaution. Get medical attention if mechanical irritation develops and persists.
- **If Swallowed:** If swallowed, DO NOT induce vomiting. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.
- **Most Important Symptoms and Effects:** Polymer fume fever; mechanical eye/skin irritation; thermal burns.
- **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/pyrolysis products may be a hazard to health.
- **Hazardous Combustion Products:** Hydrogen fluoride ( $HF$ ), carbonyl difluoride ( $COF_2$ ), carbon monoxide ( $CO$ ), carbon dioxide ( $CO_2$ ), potentially toxic fluorinated hydrocarbons.
- **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:** Follow safe handling advice (Section 7) and PPE recommendations (Section 8). Avoid dust formation. Spilled material presents a slipping hazard.
- **Environmental Precautions:** Avoid release to the environment. Prevent leakage into waterways or sewers.
- **Methods for Cleaning Up:** Sweep up or vacuum up spillage using equipment suitable for fine dust, avoiding dispersal into the air (do not use compressed air). Collect in a suitable closed container for disposal.

## SECTION 7. HANDLING AND STORAGE

- **Technical Measures & Ventilation:** Use only with adequate ventilation. Local exhaust is recommended at heating zones.
- **Advice on Safe Handling:** Do not breathe dust or decomposition products.

Minimize dust generation and accumulation. Prohibit smoking in work areas to avoid contamination of tobacco products with fluoropolymer dust. Wash hands thoroughly before breaks and after handling.

- **Conditions for Safe 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

- **Ingredients with Workplace Control Parameters:**
  - *Inert / Nuisance Dust (OSHA Z-3):* TWA  $15\text{mg}/\text{m}^3$  (Total dust),  $5\text{mg}/\text{m}^3$  (Respirable fraction).
  - *CAL PEL:* PEL  $10\text{mg}/\text{m}^3$  (Total dust),  $5\text{mg}/\text{m}^3$  (Respirable dust fraction).
- **Occupational Exposure Limits of 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.
- **Engineering Measures:** Ensure adequate ventilation, especially in confined areas. Ensure that dust-handling systems prevent the escape of dust into the workplace.
- **Personal Protective Equipment (PPE):**
  - **Respiratory Protection:** Where concentrations are above recommended limits, wear NIOSH/MSHA-approved air-purifying or supplied-air respirators.
  - **Hand Protection:** Heat-resistant gloves when handling molten material.
  - **Eye Protection:** Safety goggles or safety glasses with side shields.
  - **Skin and Body Protection:** Protective clothing; wash skin after contact.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Powder or pellets (Off-white, translucent)
- **Odor:** Odorless
- **pH:** No data available
- **Melting Point/Freezing Point:**  $>250^{\circ}\text{C}$  ( $>482^{\circ}\text{C}$ )
- **Flash Point / Evaporation Rate:** Not applicable
- **Flammability (solid, gas):** Not classified as a flammability hazard; not expected to form explosive dust-air mixtures.
- **Density:**  $1.7\text{g}/\text{cm}^3$
- **Water Solubility:** Insoluble
- **Auto-ignition Temperature:** No data available (high thermal stability)
- **Explosive Properties:** Not explosive.

## SECTION 10. STABILITY AND REACTIVITY

- **Reactivity:** Not classified as a reactivity hazard.
- **Chemical Stability:** Stable under normal conditions.
- **Possibility of Hazardous Reactions:** Can react with strong oxidizing agents. Hazardous decomposition occurs at elevated temperatures.
- **Conditions to Avoid:** Severe overheating beyond processing temperatures.

- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Hydrogen fluoride, carbonyl difluoride, carbon monoxide, carbon dioxide.

## SECTION 11. TOXICOLOGICAL INFORMATION

- **Likely Routes of Exposure:** Inhalation, skin contact, eye contact, ingestion.
- **Acute/Chronic Toxicity:** Not classified based on available information.
- **Skin Corrosion/Irritation:** Mechanical irritation/drying from dust.
- **Serious Eye Damage/Irritation:** Mechanical irritation from dust.
- **Carcinogenicity:** No component present at \ge 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, not readily biodegradable. No known bioaccumulation in the environment.

## SECTION 13. DISPOSAL CONSIDERATIONS

- **Waste from Residues:** Dispose of in accordance with local regulations. Do not dispose of waste into sewers. Mechanical recycling is preferred. Incineration only in approved facilities with acidic gas (*HF*) scrubbers.
- **Contaminated Packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14. TRANSPORT INFORMATION

- **UNRTDG / IATA-DGR / IMDG-Code / 49 CFR:** Not regulated as a dangerous good.

## SECTION 15. REGULATORY INFORMATION

- **TSCA:** Listed on or compliant with the TSCA Inventory (CAS 68258-85-5).
- **SARA 311/312 / SARA 313:** No SARA hazards. Contains no chemicals exceeding Section 313 reporting thresholds.
- **Pennsylvania Right To Know:**  
Poly(Ethylene/3,3,4,4,5,5,6,6,6-Nonafluoro-1-Hexene/Tetrafluoroethylene) (CAS 68258-85-5).
- **California Prop. 65:** WARNING: This product can expose you to trace environmental background levels of chemicals including Pentadecafluorooctanoic acid (PFOA), known to cause cancer, and Carbon monoxide, known to cause reproductive harm. (Note: Not intentionally made with PFOA).

## SECTION 16. OTHER INFORMATION

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