

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Product Name: Everflon PTFE Granular

Version: 1.0

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SDS Number: EF-PTFE-001

SECTION 1. IDENTIFICATION

- **Product name:** Everflon PTFE Granular
- **Chemical name:** Polytetrafluoroethylene (PTFE)
- **CAS-No.:** 9002-84-0

Manufacturer or supplier's details

- **Company name of supplier:** Wuhan Everflon Fluoropolymers Co.,Ltd.
- **Address:** Wuhan, Hubei Province, China
- **Telephone:** 0086-185-7168-9228
- **Emergency telephone:** 0086-185-7168-9228

Recommended use of the chemical and restrictions on use

- **Recommended use:** Resin for moulding, extrusion, and compounding.
- **Restrictions on use:** Do not use materials in medical applications involving implantation in the human body or direct contact with internal body fluids or tissues unless agreed to by Seller in a written agreement covering such use.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

- In accordance with 29 CFR 1910.1200: **Not a hazardous substance or mixture.**

GHS Label Elements

- **Pictogram:** None
- **Signal Word:** None
- **Hazard Statements:** None
- **Precautionary Statements:** None

Other hazards

- **Thermal decomposition vapors:** Thermal decomposition vapors of fluorinated plastics may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.
- **Mechanical irritation:** Dust contact with eyes or skin can cause mechanical irritation or drying.

Hazards resulting from a reaction with other chemicals under normal

conditions of use:

Conditions	Chemicals formed	Hazards
Thermal decomposition at elevated temperatures	Vapors of fluorinated plastics, carbonyl fluoride, hydrogen fluoride, carbon oxides	May cause polymer fume fever with flu-like symptoms in humans; toxic and corrosive gases generated at high temperatures (refer to Section 10).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

- **Substance / Mixture:** Substance
- **Substance name:** Polytetrafluoroethylene (PTFE)
- **Chemical formula:** (C₂F₄)_n
- **CAS-No.:** 9002-84-0
- **Concentration:** > 99.5%
- **Components:** Contains no hazardous ingredients according to OSHA Hazard Communication Standard.

SECTION 4. FIRST AID MEASURES

- **General advice:** In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
- **If inhaled:** Remove person to fresh air. If symptoms occur or polymer fume fever is suspected, get medical attention.
- **In case of skin contact:** Wash thoroughly with soap and water. Get medical attention if irritation occurs. If molten polymer contacts skin, cool rapidly with cold water; do not attempt to peel polymer from skin and seek immediate medical attention.
- **In case of eye contact:** Flush eyes thoroughly with water as a precaution. Remove contact lenses if present and easy to do. Get medical attention if 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, both acute and delayed:** Polymer fume fever (chills, fever, cough, shortness of breath); mechanical irritation to skin and eyes from fine dust particles.
- **Protection of first-aiders:** No special precautions are necessary for first aid responders under normal conditions.
- **Notes to physician:** Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

- **Suitable extinguishing media:** Water spray, Alcohol-resistant foam, Carbon dioxide (CO₂), Dry chemical powder.
- **Unsuitable extinguishing media:** None known.
- **Specific hazards during fire fighting:** Exposure to combustion products may be hazardous to health.
- **Hazardous combustion products:** Hydrogen fluoride, carbonyl fluoride, toxic fluorinated compounds, aerosolized particulates, Carbon oxides (CO, CO₂).
- **Specific extinguishing methods:** Use extinguishing measures appropriate to local circumstances and surrounding environment. Use water spray to cool unopened containers. Evacuate non-essential personnel.
- **Special protective equipment for firefighters:** Wear self-contained breathing apparatus (SCBA) and full protective gear for firefighting.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- **Personal precautions, protective equipment and emergency procedures:** Follow safe handling advice (Section 7) and personal protective equipment recommendations (Section 8). Avoid dust formation.
- **Environmental precautions:** Avoid release to the environment. Prevent material from entering drains or watercourses.
- **Methods and materials for containment and cleaning up:** Sweep up or vacuum up spillage and collect in a suitable container for disposal. Avoid dispersal of dust in the air (do not use compressed air). Dispose of according to local/national regulations.

SECTION 7. HANDLING AND STORAGE

- **Technical measures:** See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION (Section 8).
- **Local/Total ventilation:** Use only with adequate ventilation. Local exhaust ventilation is recommended during hot processing operations.
- **Advice on safe handling:**
 - Do not breathe dust or decomposition products.
 - Minimize dust generation and accumulation.
 - Wash hands thoroughly after handling.
 - **Do not smoke while handling this material;** avoid contamination of tobacco products with polymer dust.
 - Keep container closed when not in use.
- **Conditions for safe storage:** Keep in properly labeled containers. Store in a cool, dry, well-ventilated area away from incompatible materials.
- **Materials to avoid:** Strong oxidizing agents.
- **Storage stability:** Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits for Nuisance Dust / Particulates

Parameter	Value / Form	Basis
Inert or nuisance dust	15mg/m ³ (Total dust, 8-hr TWA)	OSHA Z-3
	5mg/m ³ (Respirable fraction, 8-hr TWA)	OSHA Z-3
	50 mppcf (Total dust)	OSHA Z-3
	15 mppcf (Respirable fraction)	OSHA Z-3
Particulates Not Otherwise Specified (PNOS)	10mg/m ³ (Inhalable particulate)	ACGIH TLV
	3mg/m ³ (Respirable particulate)	ACGIH TLV

Occupational exposure limits of thermal decomposition products

Component s	CAS-No.	Value type	Control parameters / Permissible concentration	Basis
Hydrogen fluoride	7664-39-3	TWA	0.5 ppm	ACGIH
		C	2 ppm	ACGIH
		TWA	3 ppm (2.5mg/m ³)	NIOSH REL
		TWA	3 ppm	OSHA Z-2
Carbonyl difluoride	353-50-4	TWA	2 ppm	ACGIH
		STEL	5 ppm	ACGIH
		TWA	2 ppm (5mg/m ³)	NIOSH REL

		TWA	2.5mg/m ³	OSHA Z-1
Carbon monoxide	630-08-0	TWA	25 ppm	ACGIH
		TWA	35 ppm (40mg/m ³)	NIOSH REL
		C	200 ppm (229mg/m ³)	NIOSH REL
		TWA	50 ppm (55mg/m ³)	OSHA Z-1
Carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm (9,000mg/m ³)	OSHA Z-1 / NIOSH

Engineering measures

- Ensure adequate general and local exhaust ventilation during high-temperature processing (>260°C).
- Maintain dust-handling equipment to prevent release into work areas.

Personal protective equipment

- **Respiratory protection:** Where concentrations exceed recommended limits or thermal processing occurs without sufficient ventilation, wear a NIOSH-approved respirator suited for organic vapors/acid gases and particulates.
- **Hand protection:** Heat-resistant gloves during thermal processing.
Chemical/dust resistant gloves for raw resin handling.
- **Eye protection:** Safety goggles or safety glasses with side shields.
- **Skin and body protection:** Appropriate protective clothing; wash skin thoroughly after handling.
- **Hygiene measures:** Do not eat, drink, or smoke when handling this material.
Wash hands before breaks and at the end of the workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Granular powder
- **Color:** White
- **Odor:** Odorless
- **Odor Threshold:** No data available

- **pH:** Not applicable
- **Melting point/freezing point:** >320°C (>608°F)
- **Initial boiling point and boiling range:** Not applicable
- **Flash point:** Not applicable
- **Evaporation rate:** Not applicable
- **Flammability (solid, gas):** Not classified as a flammability hazard
- **Upper / Lower flammability or explosion limits:** Not applicable
- **Vapor pressure:** Not applicable
- **Relative vapor density:** Not applicable
- **Density / Specific Gravity:** 2.14 - 2.20g/cm³
- **Water solubility:** Insoluble
- **Partition coefficient: n-octanol/water:** No data available
- **Auto-ignition temperature:** Not applicable
- **Decomposition temperature:** >380°C (>716°F)
- **Viscosity:** Not applicable
- **Explosive properties:** Not explosive
- **Oxidizing properties:** None

SECTION 10. STABILITY AND REACTIVITY

- **Reactivity:** Not classified as a reactivity hazard.
- **Chemical stability:** Stable under normal handling and storage conditions.
- **Possibility of hazardous reactions:** Can react vigorously with molten alkali metals, fluorine, and interhalogen compounds at elevated temperatures.
- **Conditions to avoid:** Temperatures above 380°C (716°F) to prevent decomposition.
- **Incompatible materials:** Strong oxidizing agents, alkali metals.
- **Hazardous decomposition products (Thermal):**
 - Hydrogen fluoride (HF)
 - Carbonyl difluoride (COF₂)
 - Carbon monoxide (CO)
 - Carbon dioxide (CO₂)
 - Tetrafluoroethylene, Hexafluoropropylene, Perfluoroisobutylene (trace at extreme temperatures)

SECTION 11. TOXICOLOGICAL INFORMATION

- **Information on likely routes of exposure:** Inhalation, Skin contact, Eye contact, Ingestion.
- **Acute toxicity:** Not classified based on available information.
- **Skin corrosion/irritation:** Not classified. Dust may cause mild mechanical irritation.
- **Serious eye damage/eye irritation:** Not classified. Dust may cause mechanical eye irritation.
- **Respiratory or skin sensitization:** Not classified.
- **Germ cell mutagenicity:** Not classified.
- **Carcinogenicity:**

- **IARC:** No component of this product present at levels > 0.1% is identified as probable, possible, or confirmed human carcinogen.
- **OSHA:** No component of this product is on OSHA's list of regulated carcinogens.
- **NTP:** No component of this product is identified as a known or anticipated carcinogen.
- **Reproductive toxicity:** Not classified.
- **STOT - single exposure:** Not classified.
- **STOT - repeated exposure:** Not classified.
- **Aspiration toxicity:** Not classified.

SECTION 12. ECOLOGICAL INFORMATION

- **Ecotoxicity:** Due to its insolubility in water and high chemical inertness, this material is not expected to present an environmental hazard.
- **Persistence and degradability:** Polytetrafluoroethylene is chemically inert and non-biodegradable.
- **Bioaccumulative potential:** Not expected to bioaccumulate due to high molecular weight and water insolubility.
- **Mobility in soil:** Insoluble and immobile in soil.
- **Other adverse effects:** No known significant effects or critical hazards.

SECTION 13. DISPOSAL CONSIDERATIONS

- **Waste from residues:** Dispose of in accordance with applicable local, state, and national regulations. Can often be mechanically recycled or incinerated in certified high-temperature facilities equipped with acid gas scrubbing systems. Do not dispose of waste into sewers.
- **Contaminated packaging:** Empty packaging completely before disposal or sending for recycling.

SECTION 14. TRANSPORT INFORMATION

- **UNRTDG:** Not regulated as a dangerous good
- **IATA-DGR:** Not regulated as a dangerous good
- **IMDG-Code:** Not regulated as a dangerous good
- **49 CFR (US DOT):** Not regulated as a dangerous good
- **Transport in bulk (IMO):** Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

- **TSCA:** All chemical substances in this product are listed on or exempt from the TSCA Inventory.
- **CERCLA Reportable Quantity (RQ):** This material contains no components with a CERCLA RQ.
- **SARA 304 EHS RQ:** None.
- **SARA 302 TPQ:** None.
- **SARA 311/312 Hazards:** No SARA Hazards.
- **SARA 313:** Not subject to reporting levels established by SARA Title III, Section

313.

- **US State Regulations:**
 - **Pennsylvania Right To Know:** Polytetrafluoroethylene (CAS-No. 9002-84-0)
 - **California Prop. 65:** This product is not manufactured with intentionally added PFOA or PFOS. Trace background/environmental impurities may exist.

SECTION 16. OTHER INFORMATION

NFPA 704 Rating

- **Health:** 0
- **Flammability:** 1
- **Instability:** 0
- **Special hazard:** None

HMIS IV Rating

- **Health:** 0
- **Flammability:** 1
- **Physical Hazard:** 0
- **Personal Protection:** See Section 8

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified and may not be valid when used in combination with any other materials or in any process.