

SAFETY DATA SHEET

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

Product Name: Everflon™ PTFE Micropowder MVP

Version: 1.0

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SDS Number: EF-PTFE-MVP-001

SECTION 1. IDENTIFICATION

- **Product name:** Everflon™ PTFE Micropowder MVP
- **CAS-No.:** 9002-84-0
- **Chemical name:** Polytetrafluoroethylene (PTFE)
- **Synonyms:** PTFE Micropowder, Fluoropolymer Fine Powder Additive

Manufacturer or supplier's details

- **Company name of supplier:** Wuhan Everflon Fluoropolymers Co., Ltd.
- **Address:** Wuhan, Hubei Province, P.R. China
- **Telephone:** 0086-185-7168-9228
- **Emergency telephone:** 0086-185-7168-9228
- **E-mail:** contact@everflon.com

Recommended use of the chemical and restrictions on use

- **Recommended use:** Additive for inks, coatings, lubricants, engineering plastics, and elastomers.
- **Restrictions on use:** For industrial use only. Do not use in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless agreed to in a written agreement covering such use.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

- **Hazards for the product as supplied:** Not a hazardous substance or mixture.

GHS label elements

- No hazard pictogram, no signal word, no hazard statement(s), and no precautionary statement(s) required.

Other hazards

- **Thermal decomposition vapors:** Thermal breakdown of fluorinated plastics at

elevated temperatures may cause **polymer fume fever** with flu-like symptoms (chills, fever, cough, body aches) in humans, especially when smoking tobacco contaminated with polymer dust.

- **Dust contact:**
 - Dust contact with the eyes can lead to mechanical irritation.
 - Contact with dust can cause mechanical irritation or drying of the skin.
- **Explosion/Dust hazard:** Avoid dust generation; while fluoropolymers are intrinsically flame resistant, good industrial housekeeping is required to minimize airborne dust.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

- **Substance / Mixture:** Substance
- **Substance name:** Polytetrafluoroethylene (PTFE)
- **CAS-No.:** 9002-84-0

Component Name	CAS-No.	Concentration (% w/w)
Polytetrafluoroethylene	9002-84-0	> 99.9%

Components: No hazardous ingredients present above regulated disclosure cut-offs.

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:** If inhaled, remove victim to fresh air. Get medical attention if symptoms occur.
- **In case of skin contact:** Wash thoroughly with water and soap. Get medical attention if symptoms occur.
- **In case of eye contact:** If in eyes, rinse well with plenty of clean 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 (flu-like symptoms).
 - Contact with dust can cause mechanical irritation or drying of the skin.
 - Dust contact with the eyes can lead to mechanical irritation.

- **Protection of first-aiders:** No special precautions are necessary for first aid responders.
- **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.
- **Unsuitable extinguishing media:** None known.
- **Specific hazards during fire fighting:** Exposure to combustion products may be a hazard to health.
- **Hazardous combustion products:**
 - Hydrogen fluoride (HF)
 - Carbonyl difluoride (COF₂)
 - Potentially toxic fluorinated compounds
 - Aerosolized particulates
 - Carbon oxides (CO,CO₂)
- **Specific extinguishing methods:** Use extinguishing measures appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if safe to do so. Evacuate area.
- **Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus (SCBA) for firefighting if necessary. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- **Personal precautions, protective equipment and emergency procedures:** Follow safe handling advice (see Section 7) and personal protective equipment recommendations (see Section 8). Avoid breathing dust.
- **Environmental precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
- **Methods and materials for containment and cleaning up:** Sweep up or vacuum up spillage using HEPA-filtered vacuum and collect in a suitable closed container for disposal. Avoid dispersal of dust in the air (i.e., avoid clearing dust surfaces with compressed air).

SECTION 7. HANDLING AND STORAGE

- **Technical measures:** See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- **Local/Total ventilation:** Use only with adequate ventilation (local exhaust

ventilation recommended).

- **Advice on safe handling:**
 - Do not breathe dust.
 - Do not breathe decomposition products.
 - Handle in accordance with good industrial hygiene and safety practice, based on the results of workplace exposure assessments.
 - Minimize dust generation and accumulation.
 - Keep container closed when not in use.
 - Take care to prevent spills, waste, and minimize release to the environment.
 - **Strictly prohibit smoking in handling areas.** Avoid contaminating tobacco with polymer dust.
- **Conditions for safe storage:** Keep in properly labeled containers. Store in accordance with particular national regulations in a cool, clean, and dry place.
- **Materials to avoid:** Do not store with strong oxidizing agents.
- **Storage stability:** Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Limits for Dusts (as supplied)

Form of Exposure	Value Type	Control Parameters / Permissible Concentration	Basis
Inert or nuisance dust	TWA (total dust)	50mppcf / 15mg/m ³	OSHA Z-3
Inert or nuisance dust	TWA (respirable fraction)	15mppcf / 5mg/m ³	OSHA Z-3
Dust, nuisance dust	PEL (total dust)	10mg/m ³	CAL PEL
Dust, nuisance dust	PEL (respirable dust)	5mg/m ³	CAL PEL

Contains no substances with specific chemical occupational exposure limit values in supplied state.

Occupational exposure limits of thermal decomposition

products

Component s	CAS-No.	Value Type	Control Parameters	Basis
Hydrogen fluoride	7664-39-3	TWA	0.5ppm (Fluorine)	ACGIH
		C	2ppm (Fluorine)	ACGIH
		TWA	3ppm (2.5mg/m ³)	NIOSH REL
		C	6ppm (5mg/m ³)	NIOSH REL
		TWA	3ppm	OSHA Z-2
Carbonyl difluoride	353-50-4	TWA	2ppm	ACGIH
		STEL	5ppm	ACGIH
		TWA	2ppm (5mg/m ³)	NIOSH REL
		ST	5ppm (15mg/m ³)	NIOSH REL
		TWA	2.5mg/m ³ (Fluorine)	OSHA Z-1
Carbon dioxide	124-38-9	TWA	5,000ppm	ACGIH
		STEL	30,000ppm	ACGIH
		TWA	5,000ppm (9,000mg/m ³)	NIOSH REL
		ST	30,000ppm (54,000mg/	NIOSH REL

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

Engineering measures

- Processing may form hazardous compounds (see Section 10).
- Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.
- Ensure dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area.

Personal protective equipment

- **Respiratory protection:** General and local exhaust ventilation is recommended to maintain vapor and dust exposures below recommended limits. Where concentrations are above recommended limits or are unknown, use NIOSH/MSHA-approved respirators (particulate filter N95/P100 or acid gas/organic vapor combination for hot processing).
- **Hand protection:**
 - *Material:* Protective gloves. Heat-resistant gloves when handling hot material.
 - *Remarks:* Wash hands before breaks and at the end of workday.
- **Eye protection:** Wear safety goggles or safety glasses with side shields.
- **Skin and body protection:** Skin should be washed after contact. Protective workwear.
- **Hygiene measures:** If exposure is likely during typical use, provide eye flushing systems and safety showers close to the workplace. When using do not eat, drink, or smoke. Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Fine powder
- **Color:** White
- **Odor:** Odorless
- **Odor Threshold:** No data available
- **pH:** No data available
- **Melting point/freezing point:** > 320°C (> 608°F)
- **Initial boiling point and boiling range:** No data available
- **Flash point:** Not applicable
- **Evaporation rate:** Not applicable
- **Flammability (solid, gas):** Not classified as a flammability hazard; not expected to form explosive dust-air mixtures.
- **Upper explosion limit / Upper flammability limit:** No data available
- **Lower explosion limit / Lower flammability limit:** No data available
- **Vapor pressure:** Not applicable
- **Relative vapor density:** Not applicable
- **Density:** 2.18g/cm³
- **Solubility(ies) - Water solubility:** Insoluble
- **Partition coefficient: n-octanol/water:** No data available
- **Autoignition temperature:** No data available
- **Decomposition temperature:** No data available (pyrolysis begins markedly above 350°C - 380°C)
- **Viscosity (kinematic):** Not applicable
- **Explosive properties:** Not explosive
- **Oxidizing properties:** The substance is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

- **Reactivity:** Not classified as a reactivity hazard.
- **Chemical stability:** Stable under normal recommended conditions.
- **Possibility of hazardous reactions:** Can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevated temperatures.
- **Conditions to avoid:** Excessive heating; temperatures above decomposition thresholds.
- **Incompatible materials:** Strong oxidizing agents, molten alkali metals.
- **Hazardous decomposition products (Thermal decomposition):**
 - Hydrogen fluoride
 - Carbonyl difluoride
 - Carbon dioxide
 - Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

- **Information on likely routes of exposure:** Inhalation, Skin contact, Ingestion, Eye contact.
- **Acute toxicity:** Not classified based on available information.
- **Skin corrosion/irritation:** Not classified based on available information. Dust can cause mechanical drying/irritation.
- **Serious eye damage/eye irritation:** Not classified based on available information. Dust contact can cause mechanical eye irritation.
- **Respiratory or skin sensitization:** Not classified based on available information.
- **Germ cell mutagenicity:** Not classified based on available information.
- **Carcinogenicity:**
 - **IARC:** No ingredient of this product present at levels > 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
 - **OSHA:** No component of this product present at levels > 0.1% is on OSHA's list of regulated carcinogens.
 - **NTP:** No ingredient of this product present at levels > 0.1% is identified as a known or anticipated carcinogen by NTP.
- **Reproductive toxicity:** Not classified based on available information.
- **STOT-single exposure:** Not classified based on available information.
- **STOT-repeated exposure:** Not classified based on available information.
- **Aspiration toxicity:** Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

- **Ecotoxicity:** No data available (insoluble solid).
- **Persistence and degradability:** Fluoropolymers are non-biodegradable and highly persistent in the environment.
- **Bioaccumulative potential:** Due to high molecular weight and insolubility, bioaccumulation is not expected.
- **Mobility in soil:** Immobile in soil.
- **Other adverse effects / Endocrine disrupting properties:** No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

- **Waste from residues:** Dispose of in accordance with local, state, and federal regulations. Do not dispose of waste into sewers or waterways.
- **Contaminated packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

- **International Regulations:**
 - **UNRTDG:** Not regulated as a dangerous good.

- **IATA-DGR:** Not regulated as a dangerous good.
- **IMDG-Code:** Not regulated as a dangerous good.
- **Transport in bulk according to IMO instruments:** Not applicable for product as supplied.
- **Domestic regulation (USA):**
 - **49 CFR:** Not regulated as a dangerous good.
- **Special precautions for user:** Not applicable.

SECTION 15. REGULATORY INFORMATION

- **CERCLA Reportable Quantity:** This material does not contain any components with a CERCLA RQ.
- **SARA 304 Extremely Hazardous Substances RQ:** This material does not contain any components with a section 304 EHS RQ.
- **SARA 302 Extremely Hazardous Substances TPQ:** This material does not contain any components with a section 302 EHS TPQ.
- **SARA 311/312 Hazards:** No SARA Hazards.
- **SARA 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- **TSCA:** All components are listed or exempted on the TSCA Inventory.
- **Pennsylvania Right To Know:** Polytetrafluoroethylene (CAS-No. 9002-84-0).
- **California Prop. 65:** WARNING: This product can expose you to chemicals including Pentadecafluorooctanoic acid (PFOA), which is known to the State of California to cause cancer, and Carbon monoxide, which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. (*Note: This product is not made with PFOA nor is PFOA intentionally present; background environmental levels may be present as impurities*).

SECTION 16. OTHER INFORMATION

Hazard Rating Systems

NFPA 704

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

HMIS® IV

- **Health:** 0
- **Flammability:** 1
- **Physical Hazard:** 0

- **Personal Protection:** Supplied based on workplace assessment

(0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe)

Trademark Information

- **Everflon™** is a trademark of Wuhan Everflon Fluoropolymers Co., Ltd.

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 a 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 relates only to the specific material designated and may not be valid when used in combination with any other materials or in any process, unless specified in the text.