

Material Safety Data Sheet

Section 01. Identification of the substance/mixture and the company/undertaking

Product Name: Fluorinated Ethylene Propylene (FEP) Micropowder
Use of product: Used as an additive for coatings and paints
Company details:
Manufacturer/Supplier: Fuzhou Topda New Material Co., Ltd
Address: 17-16, C3# Building, Cangshan Wanda Plaza, 216 Pushang Avenue,
Fuzhou
Telephone number: +86-591-86396155
Fax number: +86-591-86396155
Emergency telephone number: +86-591-15859107755
Email: contact@fluorochemie.com

Section 02. Composition/information on ingredients

Chemical Name	CAS No.	Concentration
Fluorinated Ethylene Propylene (FEP)	25067-11-2	>99.9%

Other REC Limits: 10 MG/M3 TDUST(MFR)

Ozone Depleting Chemical: N

Section 03. Hazards identification

Low oral toxicity

The major health hazard associated with this material is the inhalation of thermal decomposition products. Exposure to fumes from the sintering and high temperature processing of FEP may give rise to a condition called 'Polymer Fume Fever'.

Thermal decomposition at temperatures greater than 380°C yields a range of highly toxic and corrosive products. Contamination of tobacco products MUST be avoided.

Section 04. First aid measures

Inhalation: Inhalation of fumes: Remove patient from exposure, keep warm and at rest. Obtain medical attention.

Skin Contact: If symptoms persist, obtain medical attention.

Eye Contact: Remove particles by irrigate with eye wash solution or clean water, holding the eyelids apart.

Ingestion: Do not induce vomiting. Wash out mouth with water and give 200-300ml (half a pint) of water to drink. Obtain medical attention.

Further Medical Treatment

Symptomatic treatment and supportive therapy as indicated.

Inhalation of fumes: keep under medical review for possible development of 'Polymer Fume Fever'. Following severe exposure the patient should be kept under medical review for at least 48 hours as delayed pulmonary edema may develop.

Section 05. Fire-fighting measures

Low fire hazard. If a flame is applied to the material it will ignite but if the flame is removed then combustion ceases. Combustion or thermal decomposition will evolve toxic and corrosive vapors.

Extinguishing Media: As appropriate for surrounding materials/equipment.

Fire Fighting Productive Equipment: A self contained breathing apparatus and full protective clothing should be worn in fire conditions.

Section 06. Accidental release measures

Caution: spillages may be slippery. Do not incinerate.

Clear up spillages. Transfer to a container for disposal or recovery.

Section 07. Handling and Storage

Spill Release Procedures: SWEEP UP TO AVOID SLIPPING HAZARD.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: LANDFILL OR INCINERATION IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. INCINERATION REQUIRES SCRUBBING OF GASEOUS PRODUCTS TO REMOVE HYDROGEN FLUORIDE.

Handling And Storage Precautions: AVOID CONTAMINATION. KEEP CONTAINERS CLOSED. BEFORE USING, READ TEFLON "SAFETY IN HANDLING AND USE", BULLETIN E-35824-1.

Other Precautions: AVOID CONTAMINATION OF CIGARETTES OR TOBACCO WITH POLYMER DUST.

Section 08. Exposure controls/personal protection

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Respiratory Protection: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Skin Protection: Wear appropriate protective clothing to minimize contact with skin.

Eyes Protection: Wear safety glasses and chemical goggles if splashing is possible.

Section 09. Physical and chemical properties

Form: powder
Color: white
Odor: odorless
Melting point/Melting range: 265±5℃
Boiling point/Boiling range: Not applicable
Flash point: Not applicable
Self-igniting: Not happen
Density: Bulk density 350-400kg/m³
Relative density: 2.15kg/L
Vapor density: Not applicable
Evaporation rate: Not applicable
Solubility (water): insoluble
PH Value: Not applicable

Section 10. Stability and reactivity

Stability: Stable under ordinary conditions of use and storage.
Conditions to Avoid: Incompatible materials, strong oxidants.
Hazardous Decomposition: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, hydrogen fluoride gas.
Hazardous Polymerization: Has not been reported.
Materials to avoid: Strong oxidizing agents

Section 11. Toxicological properties

Acute Toxicity:

Oral LD

BB

50

BB

(rat) (mg/kg):1250

Oral LD

BB

50

BB(mouse) (mg/kg):4000

Carcinogenic: Substances are not listed as a carcinogen by NTP or OSHA (1993).

IARC: Group 3.

Inhalation: High concentrations of mist may be irritant to the upper respiratory tract. Exposure to fumes from the sintering and high temperature processing of FEP may give rise to a condition called 'Polymer Fume Fever'.

'Polymer Fume Fever' causes influenza type symptoms occurring a few hours after exposure and lasting up to 48 hours.

Skin contact: May cause physical abrasion in contact with skin.

Eye contact: May cause physical abrasion in contact with eyes.

Ingestion: Low oral toxicity. Unlikely to be hazardous if swallowed.

Section 12. Ecological information

Biodegradability: No data

Bioaccumulation (log pow): No data

Fish toxicity: No data

Adverse effects would not be expected.

Solid with low volatility. The substance is essentially insoluble in water.

Section 13. Disposal considerations

Waste Disposal Methods: Recycle, reclaim and dispose of in compliance with local government regulations.

Section 14. Transport information

The goods is not hazardous for sea and or air transport subject to IMO IMDG CODE

Section 15. Regulatory information

European/International Regulations European Labeling in Accordance with EC Directives

Safety phrases: S24/25: Avoid contact with skin and eyes

Risk phrases: No data For detailed regulations you should contact the appropriate agency in your country.

Section 16. Other information

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.