

## Technical Data

# MSDS

### Part 1 : Chemicals & Identification of company

Chinese name of chemicals	水性不粘涂料面油
English name of chemicals	Topcoat of Water-base non-stick coating
Company name	Zhejiang Pfluon Technology Co.,Ltd
Address	No.588 Huatai Road, New District, Jinpan Development Area, Jinhua City, Zhejiang Post code : 321016
E-mail	sz-pfluon@pfluon.com
Fax	0579-82206735
Emergency phone	0579-82207353
Commencement	2007-1-1
State emergency phone	0532-3889090

### Part 2 : Components

Sterling□		Mixture▣
Chemical name : water-base fluororesion non-stick coating		
Harmful ingredients	Concentration	CAS No.
PTFE	40%-45%	9002-84-0
Triethanolamine	2%-4%	102-71-6
Water	40%-55%	7732-18-5
Pearl powder	1%-3%	12001-26-2

### Part 3: Hazards summarizing

Hazards identification	Hazard
Route of entry	Inhalation, ingestion, transdermal
Health hazards	Inhalation of high concentrations causes coughing, shortness of breath and chest tightness. High concentration can cause death. Steam can cause eye irritation and liquid can cause eye inflammation and corneal opacity. Skin contact with the liquid, causing dry skin and stimulate. If eating unconsciously, headache, nausea, mouth and stomach stimulation will occur.
Environment hazards	Do not exceed the recommended baking temperature(380 °C × 10 minutes). If exceed the certain temperature, the membrane material will volatile hydrogen fluoride gas. The release of the gas will grow as the increase of the temperature. Hydrogen fluoride is toxic and may stimulate the skin and eyes. A high concentration of fluoridation hydrogen can cause lung injury and burn. The exhaust ventilation should be particularly careful, or some plants are susceptible to fluoride' s harm.

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Explosion hazards	The finer particles fluorine carbon compound and metal powder might happen if exceed 426.7 °C. It might produce such mixture during the process of grinding, polishing or sandblasting. To avoid such a mixture of fluorine carbon compound with metal combined with dust.
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### Part 4 : First aid measures

Skin contact	Take off contaminated clothes, wash skin thoroughly with soap and clean water.
Eye contact	Holding the eyelid apart immediately, irrigate copiously with moving water or normal saline for 15 min at least, seek medical advice.
Inhalation	Move to fresh air and keep distance from the scene quickly. Maintain airway patency. If breath is irregular or stopped, administer artificial respiration and heart massage. Seek medical advice.
Ingestion	If swallowed, induce vomiting, seek medical advice immediately and show the chemical components names.

### Part 5 : Fire-fighting measures

Nature of Hazard	Not easily flammable liquid
Hazardous combustion products	CO, CO <sub>2</sub> , Smog
Suitable extinguishing media	Foam, CO <sub>2</sub> , Dryer powder, Sand, Water are available

### Part 6 : Accidental release measures

Emergency measures	Abide by the disclosure control procedures of the plant. It must be stopped leaking and kept well-ventilated under safety condition. It must clear the fire if the flash point temperature of heated more than necessary. Avoid the contact with skin and eyes, as well as inhalation of steam. Block and remove with inert material, in addition, dispose the waste properly.
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### Part 7 : Handling and storage

Operation notes	Enhance ventilation. Operators must be specially trained, strictly observe operating instructions. Strongly recommended the operators wear self-absorption filter respirators (half-mask), chemical safety protective glasses, anti-virus infiltration overall as well as oil resistance rubber gloves. Keep away from fire, heat. No smoking in workplaces. Use explosion-proof ventilation systems and equipments. Pay attention to the flow rate (not exceed 5m / s). It must have grounding device to prevent accumulation of static electricity. Lightly dispose when handling in order to prevent the damage of packages and containers. Appropriate types and quantities of fire equipment, gas mask filter, emergency rescue or evacuation, as well as emergency treatment facilities are equipped. Empty
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	containers may have harmful residues.
Storage precautions	Store in a cool, ventilated storeroom. Keep distance from fire and heat. Storage temperature should not exceed 30 °C. Keep container closed. Use explosion-proof lighting and ventilation facilities. The use of easy to produce sparks of mechanical equipment and tools are prohibited. Storage areas should be equipped with emergency spill equipment and suitable host materials.

## Part 8 : Exposure control/ Personal protection

Maximum allowable concentration	
Monitoring	
Engineering control	Increase ventilation
Respiratory protection	It should use air respiration apparatus or oxygen respirator.
Eye protection	Wear chemical safety protective eyewear.
Body protection	Wear anti-virus infiltration clothes
Hand protection	Wear oil resistance rubber gloves
Other protection	No smoking, eating and drinking in the workplace. Avoid drinking alcohol beverage before working. Take a bath after work. Take pre-employment and periodic medical examinations

## Part 9 : Physical and chemical properties

Physical and chemical properties	Opaque liquid
Melting point ( °C )	No data available
Boiling point ( °C )	100
Relative density ( water=1 )	1.2-1.35
Vapor pressure ( mm )	23.5 20°C
Heat of combustion ( kJ/mol )	No data available
Critical temperature ( °C )	No data available
Critical pressure ( MPa )	No data available
Flash point ( °C )	91°C
Explosion on the offline % ( V/V )	No data available
Ignition temperature ( °C )	No data available

## Part 10 : Stability and reactivity

Stability	Stable
Materials to avoid	Oxidant
Conditions to avoid	Fire, high fever
Polymerization damage	Will not occur
Decomposition products	CO, CO <sub>2</sub>

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### Part 11 : Toxicological data

Acute poisoning	
Chronic poisoning	
Sub-acute and chronic toxicity	

### Part 12 : Ecological information

Ecotoxicological toxicity	
Biodegradable	
Non-biodegradable	
Store sets of biological	

### Part 13 : Waste disposal

Nature of the waste	Hazardous waste.
Waste disposal methods	Controlled burning treatment.

### Part 14 : Transport information

Dangerous goods code	
UN No.	
packaging mark	
Packaging type	
Packaging method	Plastic bucket
Transport notes	Transport in the morning or evening in Summer, prevent sunlight exposure. Abide by the required routes when transport.

### Part 15 : Regulatory information

Dangerous chemicals safety management regulation	The State Council issued for the safety production, use, storage, transport, handling and other aspects of corresponding provisions of hazardous chemicals are made on 17 <sup>th</sup> February, 1987.
" Common dangerous chemical classification and labeling "	GB 13690—92

### Part 16 : Others

Revision date	2010-6-8
Department	Zhejiang Pfluon Technology Co.,Ltd