

Safety Data Sheet

Chemicals name:	Fluorinated Engineering Fluid XP-3283	Version:	6.0
Issue Date:	09/01/2025	Previous Date:	06/01/2024
Editor:	Vivian Zhang	Approved by:	Stanley Zeng
Revision information:	1. Product name change to replace XP-3288; 2. Update parts of sections of sections 3,9,10,11 and 15		

SECTION 1: Chemical and manufacturer data

1.1. Product identifier

Fluorinated Engineering Fluid XP-3283

1.2. Name, address and telephone number of manufacturer, importer or supplier

Manufacture: Zhangzhou Xipu Material Technology Co.,Ltd.

Address: 166 Xialin Road, Gulei Town, Guleigang Economic Development Zone, Zhangzhou City, Fujian Province

Telephone: +86 18621865713

1.3. Emergency contact number/fax number/email address

Emergency contact number: +86 18621865713

Fax number: +86 21-50352129

Email address: stt@sipromaterial.com

1.4. Recommended use and restrictions on use

For Industrial Use Only.

Not Intended for Use in Medical Device or Drug.

Please contact for further information.

SECTION 2: Hazards identification

2.1. GHS Hazard Class

Not classified as hazardous.

2.2. Label Elements

Signal word

Not applicable

Symbols

Not applicable

Pictograms

Not applicable

Hazard Statements

None

Prevention

None

Response

None

Storage

Store in a well-ventilated place. Keep container airtight.

Disposal

Dispose of contents/containers in accordance with local/regional/national/international regulations.

2.3.Other Hazards Which Are Not Covered by The GHS

No information available.

SECTION 3: Composition/information on ingredients

Ingredient	CAS No.	% By Wt.
PERFLUORO COMPOUNDS, C5-18	86508-42-1	100

SECTION 4: First aid measures**4.1. Description of First Aid Measures****Inhalation:**

Move the victim to fresh air and keep airway unobstructed. Keep the victim warm and quiet. Call the medical emergency services. If breathing is difficult, give oxygen. If not breathe, give artificial respiration.

Skin contact:

Remove and insulate contaminated clothing, shoes and socks. Flush the skin with running water at least 20 minutes. If feel unwell, get medical help.

Eye contact:

Flush the eyes with running water at least 20 minutes immediately. If feel unwell, get medical help.

Ingestion:

Rinse mouth. Do not induce vomiting without medical advice. Keep the victim warm and quiet. Call the medical emergency services. If breathing is difficult, give oxygen. If not breathe, give artificial respiration.

Protecting of First-aiders:

Ensure that first-aiders are aware of the hazard characteristics of the product. Take precautions to protect themselves and prevent spread of contamination.

4.2.Most Important Symptoms/Effects, Acute and Delayed.

No critical symptoms or effects. See Section 11.1, information on toxicity information.

4.3.Indication of Immediate Medical Attention and Special Treatment Needed

No information is available.

SECTION 5: Fire-fighting measures**5.1. Extinguishing Media****Suitable extinguishing media:**

Use a fire-fighting agent suitable for the surrounding fire.

5.2. Specific Hazards Arising From the Chemical

Thermal decomposition may occur at extremely high temperature. Do not inhale the decomposed product. The potential decomposition by-products include carbon monoxide, carbon dioxide and hydrogen fluoride.

5.3. Special Protective Equipment and Precautions for Fire-fighters

If in case a fire happens, wear self-contained breathing apparatus (SCBA) and full protective gear, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures**6.1. Personal Precautions, Protective Equipment and Emergency Procedures**

Ventilate the area with fresh air. Evacuate personal to safety area if needed.

6.2. Environmental Precautions

Collect the leakage. Do not let the product release into the drain. Avoid discharging to the environment.

6.3. Methods and Materials for Containment and Cleaning Up

Working from the edges of the spill inward, cover with commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Place in a closed container approved by appropriate authorities. Dispose of collected material as soon as possible in accordance with applicable regulations.

SECTION 7: Handling and storage

7.1. Precautions for Safe Handling

For industrial use only. Do not breathe thermal decomposition products. Avoid release to the environment. Avoid contact with oxidizing agents. No eating and smoking when handling the product.

7.2. Conditions for Safe Storage

Store away from heat. Store away from oxidizing agents. Store in a tightly closed original container.

SECTION 8: Exposure controls/personal protection

8.1. Control Parameters

Occupational exposure limits:

According to GBZ 2.1-2019 "Occupational exposure limits for hazardous agents in the workplace - Part 1: Chemical hazardous agents"

Limits in The Air of The Workplace: No information available.

Biological Limit Values: No information available.

8.2. Exposure controls

8.2.1. Engineering Controls

Maintain adequate ventilation, especially in enclosed areas. Provide eyewash and shower facilities near the workplace. Set up emergency evacuation channels. Equipped with corresponding types and quantities of fire-fighting equipment and leakage emergency treatment equipment.

8.2.2. Individual Protection Measures

Eye / face protection

Wear chemical safety protective glasses or face shield.

Skin/hand protection

Protective gloves are not required under normal use conditions. However, when the product is exposed to extreme heat, HF may be formed. For those cases, neoprene gloves and apron are recommended.

Body protection

Wear flame-retardant, anti-static and anti-seeping protective clothing. Wear anti-static protective boots.

Respiratory protection

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use a positive pressure supplied-air respirator.

Other protection

Smoking is prohibited in the workplace. Wash thoroughly after work and do not bring work clothes to non-workplaces. The type of protective equipment must be selected according to the concentration and property of hazardous substances in a specific workplace.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Colorless transparent liquid
Odour	No information available.
pH	No information available.
Melting Point/Freezing Point (°C)	No information available.
Boiling Point/ Initial Boiling Point/ Boiling Range (°C)	123-133
Flash Point (Closed Cup) (°C)	No flash point
Vapor Pressure (Pa)	1400 (@ 25 °C)
Flammability	No information available.
Density (g/cm ³)	1.820(@20°C)
volume resistivity	10 ¹⁵
Dielectric Strength , 0.1”gap	>40
Dielectric Constant @1kHz	1.9
Solubility	Not easily soluble in water.
Lower/Upper Explosion Limit [% (v/v)]	No information available.
Vapour Pressure (MPa)	No information available.
Relative vapour density	No information available.
n-Octanol/Water Partition Coefficient	No information available.
Auto-ignition Temperature (°C)	No information available.
Decomposition Temperature (°C)	No information available.
Kinematic Viscosity (mm ² /s)	1.4 centipoise at 25 °C
Particle Characteristics	Not applicable.
Average Molecular Weight	521
Percent volatile	100%

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with strong acids, strong bases, and strong oxidizers at very high temperature.

10.2. Chemical Stability

Stable under correct conditions of storage and use.

10.3. Possibility of Hazardous Reactions

No information available.



10.4. Conditions to Avoid

Extreme heat.

10.5. Incompatible Materials

Alkali and alkaline earth metals.

10.6. Hazardous Decomposition products

Hydrogen fluoride, carbon monoxide and carbon dioxide are the possible decomposition products during the combustion at greater than 200°C.

SECTION 11: Toxicological information

11.1. Acute Toxicity

LD₅₀ (Dermal Rat) - >5000 mg/kg

LC₅₀ (Inhalation Rat) - >21.3349mg/L-4h

Inhalation:

No known health effects.

Skin contact:

No significant irritation.

Eye contact:

No significant irritation.

Ingestion:

No known health effects.

11.2. Toxicological data

Not classified as hazardous. Please contact the address or phone number listed on the first page for detail information.

11.3. Skin Corrosion/Irritation

Not applicable.

11.4. Serious Eye Damage/Irritation

Not applicable.

11.5. Skin Sensitization

No information available.

11.6. Respiratory Sensitization

No information available.

11.7. Germ Cell Mutagenicity

No information available.

11.8. Carcinogenicity

No information available.

11.9. Reproductive Toxicity

No information available.

11.10. STOT-Single Exposure

No information available.

11.11. STOT-Repeated Exposure

No information available.

11.12. Aspiration Hazard

No information available.



SECTION 12: Ecological information

12.1. Ecotoxicity

No information available.

12.2. Persistence and Degradability

No information available.

12.3. Bioaccumulative Potential

No information available.

12.4. Mobility in Soil

No information available.

12.5. Other Adverse Effects

No information available.

SECTION 13: Disposal considerations

Dispose of the product in accordance with the local and national regulations. Consult local authorities and regulations to ensure proper classification. Dispose of waste product in a permitted industrial waste facility. Combustion products will include HF. Facility must be capable of handling HF. Empty and clean product containers may be disposed as non-hazardous waste. Consult your local regulations and service providers to determine available options and requirements.

For the safety of persons conducting disposal, recycling or reclamation activities, see section 8 (Exposure controls and Personal protection) of the SDS.

SECTION 14: Transport Information

Not regulated per IATA, IMO or US DOT.

Transport hazard class

Not applicable.

Packaging group

Not applicable.

SECTION 15: Regulatory information

15.1. China Regulations on the Control over Safety of Dangerous Chemicals

1. The regulations applicable to the safety management for the production, storage, use, business and transportation of hazardous chemicals.
2. Whether the product is listed in "China Catalog of Hazardous Chemicals" (2015 Edition): No.
3. Whether the product complies with the "Principles for Definition and Determination of Hazardous Chemicals" in "China Catalogue of Hazardous Chemicals" (2015 Edition): Yes.

15.2. China Provisions on Environmental Administration of New Chemical Substances

1. The provisions applicable to the environmental management of new chemical substances which is used in research, production, import and processing.
2. Whether the product is listed in "China Inventory of Existing Chemical Substances" (2013 Edition): Included.

15.3. Chemical Inventories

-The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance".

-The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS).

- The components of this product are in compliance with the new substance notification requirements of CEPA.
- The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law.
- The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law.
- The components of this material are in compliance with the provisions of Philippines RA 6969 requirements.
- The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

SECTION 16: Other information

16.1.Revision Date

2025/08/29

16.2.Previous Date

2024/06/01

16.3.According to the Standard

UN "Globally Harmonized System of Classification and Labelling of Chemicals" (Rev.9)

16.3.Abbreviations

GHS–Globally Harmonized System of Classification and Labelling of Chemicals.

EC NO.–European Inventory of Existing Commercial Chemical Substances Number.

CAS NO.–Chemical Abstract Service Number.

LC50–The concentration of a chemical which causes the death of 50% of a group of test animals.

LD50–The amount of a chemical which causes the death of 50% of a group of test animals.

16.4.Disclaimer

This Safety Data Sheet (SDS) is revised by Zhangzhou Xipu Material Technology Co.,Ltd. and issued on September 1, 2025. The Previous version was created on June 1, 2024. The information in this Safety Data Sheet (SDS) is prepared as accurate as possible based on our knowledge of the date issued.This SDS is intended for reference purposes only.Users of SDS should judge the applicability of relevant information according to the actual situation.