

Safety Data Sheet

Chemicals name:	PFE-10	Version:	5.0
Issue Date:	08/17/2023	Previous Date:	11/30/2022
Editor:	Ivey Zhang	Approved by:	Stanley Zeng
Revision information:	1.Change of company logo; 2.Update the content of some sections		

This safety data sheet is prepared in accordance with the Identification and General Rules for Hazardous Chemicals.d guidance.

SECTION 1: Chemical and manufacturer data

1.1. Product identifier

PFE-10

1.2. Recommended Use of the Product and Restrictions on Use

Manufacturer: 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 21-58682568

Email address: stt@megachemistry.cn

1.4. Recommended use and restrictions on use

For Industrial Use Only. Specific cleaning and surfactant applications.

Not Intended for Use in Medical Device or Drug.

Please contact for further information.

SECTION 2: Hazards identification

2.1.Hazard classification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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.

Other hazards

Unknown.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S.No.	% by Wt
Methyl Perfluorobutyl Ether	163702-07-6	10-45
Methyl Perfluoroisobutyl Ether	163702-08-7	55-90

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

No need for first aid.

Skin Contact:

If exposed, wash with soap and water. If symptoms develop, call medical doctor.

Eye Contact:

If exposed, flush eyes with large quantity of water. Remove contact lenses if easy to do. If symptoms develop, call medical doctor.

If Swallowed:

Rinse mouth. Do not induce vomiting. If symptoms develop, call medical doctor.

4.2. Most important symptoms and effects, both acute and delayed

No critical symptoms or effects.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

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

Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Exposure to extreme heat can result in thermal decomposition.

5.3 Hazardous Decomposition or By-Products

Carbon monoxide, carbon dioxide and hydrogen fluoride are expected to be the decomposition products during the combustion under extreme heat.

5.4. Special protective actions for fire-fighters

If in case a fire happens, wear full protective clothing, including helmet, positive pressure or pressure demand breathing apparatus, special coat, and pants to cover 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. Evacuated if needed.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material 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. Not for medical, drug and consumer use. 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 including any incompatibilities

Store away from acids. Store away from strong bases. 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

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Methyl Perfluorobutyl Ether	163702-07-6	AIHA	TWA:750 ppm	-
Methyl Perfluoroisobutyl Ether	163702-08-7	AIHA	TWA:750 ppm	-

AIHA : American Industrial Hygiene Association

TWA: Time-Weighted-Average

8.2. Exposure controls

8.2.1. Engineering controls

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use with appropriate local exhaust ventilation to maintain levels of decomposition products under their exposure guidelines.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

None required.

Skin/hand protection

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

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.

8.3. Thermal hazard

Wear insulated gloves when handling hot substances to avoid heat burns.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Color	Colorless
Specific Physical Form:	Liquid
Odor	Slight Ether Odor
Odor threshold	No Data Available
pH	Not Applicable
Melting point	-135 °C
Boiling Point	61 °C at 760 mmHg
Flash Point	No flash point
Evaporation rate	No Data available
Vapor Pressure(mmHg)	202 mmHg at 25 °C
Vapor Density	8.6 (Reference: Air = 1)
Density	1.5 g/ml
Specific Gravity	1.5 (Reference: Water = 1)
Solubility In Water	< 12 ppm
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	3.9 at 30 °C
Decomposition temperature	Not Applicable
Viscosity	0.6 centipoise at 25 °C
Flammability	Not flammable
Flammable Limits (LEL)	None detected
Flammable Limits (UEL)	None detected
Percent volatile	100 %

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with strong acids, strong bases, and strong oxidizers under certain conditions .

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids
Strong bases
Strong oxidizing agents

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide and hydrogen fluoride are the possible decomposition products during the combustion at elevated temperatures.

SECTION 11: Toxicological information

Inhalation:

No known health effects.

Skin Contact:

No significant irritation.

Eye Contact:

No significant irritation.

Ingestion:

No known health effects.

Toxicological Data

Not classified as hazardous.

Please contact the manufacturer for more information on this subject.

SECTION 12: Ecological information

Ecotoxicological information

EC50 Water flea (*Daphnia magna*): > 10 mg/L 48 H

LC50 Fathead minnow (*Pimephales promelas*): > 7.9 mg/L 96 H

IC50 Green algae (*Selenastrum capricornutum*): > 8.9 mg/L 96 H

Ecotoxicity: This product may be harmful to aquatic organisms.

Environmental Effects: This product is not expected to be harmful to the environment.

Persistence and Degradability: Expected to vaporize rapidly from aerobic.

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.

SECTION 14: Transport information

Not regulated per IATA, IMO or US DOT.

SECTION 15: Regulatory information

Chemical Inventories

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

The components of this product are in compliance with the new substance notification requirements of CEPA in Canada

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

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply.

The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply.

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply.

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.

Please contact the manufacturer for further information.

SECTION 16: Other information

16.1.Compile Date

08/17/2023

16.2.Previous Date

11/30/2022

16.3.Based on standards

Globally Harmonized System of Classification and Labelling of Chemicals(GHS) (Revision 9)

16.4. Disclaimer

This Safety Data Sheet (SDS) is revised by Zhangzhou Xipu Material Technology Co.,Ltd. and issued on 2023/08. The Previous version was created on 2022/11. The information in this Safety Data Sheet (SDS) is prepared as accurate as possible based on our knowledge of the date issued.