



# Material Safety Data Sheet

## TE-8 Perfluorooctyl Ethylene

Revised 03- November-2009

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Material Identification:

**Product name:** TE-8  
**Chemical name:** Perfluorooctyl ethylene;  
*1H,1H,2H-Heptadecafluorodec-1-ene*  
**Chemical formula:**  $\text{CH}_2=\text{CH}(\text{CF}_2\text{CF}_2)_4\text{F}$   
 $\text{C}_{10}\text{H}_3\text{F}_{17}$

#### Company Identification:

**Distributor** Top Fluorochem Co., Ltd.  
Building C2, 3<sup>rd</sup> Floor  
479 Chun Dong Road  
XinZhuang Industrial Park  
Minhang District  
Shanghai, P. R. China 201108

**Manufacturer** Fuxin Hengtong Fluorine Chemicals Co., Ltd.  
Fuxin Chemicals Community  
West Pingan St.  
Haizhou District  
Fuxin City, Liaoning Province, P. R. China

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### 2. COMPOSITION AND INFORMATION ON COMPONENTS

Material	Molecular Weight	Weight Percent	EINECS #	CAS #
Perfluorooctyl ethylene	446.10		244-503-5	21652-58-4
4- <i>tert</i> -butylcatechol (inhibitor)	166.22	30 ppm	202-653-9	98-29-3

### 3. HAZARDS IDENTIFICATION

**Irritant** Harmful by inhalation, ingestion, and skin absorption. Irritating to skin, eyes, and respiratory system. Do not breathe vapor. Use caution when handling. To the best of our knowledge, the health hazards of this material have not been fully investigated.

### 4. FIRST AID MEASURES

**Potential Effects Of Exposure:**

<b>Inhalation:</b>	Remove victim from source of exposure to fresh air. If breathing is difficult administer oxygen. Seek medical attention.
<b>Eye contact:</b>	Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes while keeping eyes open. COLD water may be used. Seek medical attention.
<b>Skin contact:</b>	After contact with skin, wash with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. COLD water may be used. Cover the irritated skin with an emollient. Seek medical attention. Wash any contaminated clothing before reusing.
<b>Ingestion:</b>	Do not induce vomiting. Give water to victim to drink. Seek medical attention.

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## 5. FIRE FIGHTING MEASURES

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<b>Extinguishing Medium:</b>	Carbon dioxide, dry chemical powder, alcohol or polymer foam.
<b>Special Fire-Fighting Procedures:</b>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
<b>Unusual Fire and Explosion Hazards/Decomposition of Product:</b>	Emits toxic fumes under fire conditions.

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## 6. ACCIDENTAL RELEASE MEASURES

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<b>Steps to be Taken if Material is Released or Spilled:</b>	Wear appropriate respirator, rubber boots and heavy rubber gloves. Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after pickup is complete. Wash skin immediately with plenty of water.
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## 7. HANDLING AND STORAGE

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<b>IRRITANT</b>	AVOID PROLONGED USE. AVOID ALL DIRECT CONTACT WITH MATERIAL. Wash thoroughly after handling. Do not breathe dust or vapor. Have safety shower and eye wash available. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Ensure adequate ventilation during use. Use only in a chemical fume hood. Avoid sources of ignition.
<b>Storage:</b>	Store in a cool, dry, well-ventilated area.

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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<b>Fire And Explosion Protection:</b>	Do not spray on a naked flame or any other incandescent material. Store in tightly sealed containers in a cool, well-ventilated place.
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<b>Respiratory Protection:</b>	In case of mist, spray, or aerosol exposure wear suitable personal respiratory protection and protective suit.
<b>Eye Protection:</b>	Tightly fitting safety goggles.
<b>Hand Protection:</b>	Wear impervious gloves. Wash hands thoroughly after handling.
<b>Skin and Body Protection:</b>	Wear lightweight protective clothing. Avoid contact with skin and eyes. Wash hands immediately after handling the product.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Boiling Point</b>	149 °C at 760 mm Hg
<b>Melting Point</b>	- 42 °C
<b>Density</b>	1.677 g/mL at 25 °C
<b>pH</b>	Not measured
<b>Form</b>	Liquid
<b>Color</b>	Colorless
<b>Flash Point</b>	125 °C (closed cup)
<b>Refractive Index</b>	N(D) = 1.300 @ 20 °C
<b>Solubility in Water</b>	Negligible

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## 10. STABILITY AND REACTIVITY

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<b>Incompatibilities:</b>	Oxidizing agents, strong acids, and strong bases.
<b>Hazardous Decomposition Products:</b>	May evolve carbon dioxide, carbon monoxide, and hydrogen fluoride.
<b>Polymerization:</b>	Homopolymerization will not occur. Copolymerization can occur in the presence of free radical sources, heat or UV light.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Acute Effects:</b>	Harmful, irritant. Causes skin and eye irritation. Material is irritating/harmful to mucous membranes and upper respiratory tract. To the best of our knowledge, the toxicological properties of this product have not been fully determined.
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## 12. DISPOSAL CONSIDERATIONS

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<b>Disposal:</b>	Dissolve in or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local laws.
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## 13. TRANSPORTATION INFORMATION

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<b>Shipping Information:</b>	Not regulated as a hazardous material by DOT, IMO, or IATA.
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TE-8 MSDS

**DOT Proper Shipping Name:** None. Non-hazardous for transport.

**UN Number:** None. Non-hazardous for transport.

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#### 14. OTHER INFORMATION

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**Legal Disclaimer:**

For R&D use only. Not for drug, household, or other uses. The previous information is based upon our current knowledge and experience of our product and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations or mixtures, one must confirm that no new hazards are likely to exist. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and integrity of the work environment. Unless noted to the contrary, the technical information applies only to pure product.

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End of MSDS