



# Material Safety Data Sheet

## FC07-12 Perfluorododecyl Ethyl Methacrylate

Revised 12-August-2009

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Material Identification

**Product name:** FC07-12  
**Chemical name:** Perfluorododecyl ethyl methacrylate  
*1H,1H,2H,2H-Pentacosafuorotetradecyl-1-methacrylate*  
**Chemical formula:**  $\text{CH}_2=\text{C}(\text{CH}_3)\text{C}(\text{O})\text{OCH}_2\text{CH}_2(\text{CF}_2\text{CF}_2)_6\text{F}$   
 $\text{C}_{18}\text{H}_{19}\text{F}_{25}\text{O}_2$

#### Company Identification

**Distributor:** **Fluoryx, Inc.**  
1933 Davis St., Suite 293  
San Leandro, CA 94577  
USA  
**Emergency call:** +86-1346-4812437  
+1-510-329-2811

### 2. COMPOSITION AND INFORMATION ON COMPONENTS

Material	Molecular Weight	Weight Percent	EINECS #	CAS #
Perfluorododecyl ethyl methacrylate	732.22	> 99 %	NA	6014-75-1
2,6-Di- <i>tert</i> -butyl-4-methylphenol	220.35	30 ppm	204-881-4	128-37-0

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**Caution:** Irritating to eyes, respiratory system and skin.

For additional information on toxicity, please refer to Section 11.

### 4. FIRST AID MEASURES

**Oral Exposure:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Inhalation Exposure:** If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Dermal Exposure:** In case of contact, immediately wash skin with soap and copious amounts of water.

**Eye Exposure:** In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

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## 5. FIRE FIGHTING MEASURES

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### Flammable Properties

**Flash point:** > 110 °C (closed cup)  
**Autoignition temp:** N/A  
**Flammability:** N/A

**Extinguishing Media:** Water spray, carbon dioxide, dry chemical powder, or appropriate foam.

**Fire-fighting instructions:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Specific hazard(s):** Emits toxic fumes under fire conditions.

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## 6. ACCIDENTAL RELEASE MEASURES

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**Personal Precautions:** Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

**Clean-Up Procedures:** Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

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## 7. HANDLING AND STORAGE

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**Handling Requirements:** Do not breathe vapor. Avoid contact with eyes, skin, and clothing.

**Storage Conditions:** Keep tightly closed. Store at 4 to 8 °C.

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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**Engineering Controls:** Safety shower and eye bath. Mechanical exhaust required.

### Personal Protective Equipment

**Eye:** Chemical safety goggles.

**Respiratory:** Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

**Hand protection:** Compatible chemical-resistant gloves.

**General Hygiene Measures:** Wash thoroughly after handling. Wash contaminated clothing before reuse.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Molecular Weight** 732.22 g/mol  
**pH** 3 to 5  
**Boiling Point** N/A

<b>Melting Point</b>	N/A
<b>Vapor Pressure</b>	N/A
<b>Vapor Density</b>	N/A
<b>Saturated Vapor Conc.</b>	N/A
<b>SG/Density</b>	N/A
<b>Bulk Density</b>	N/A
<b>Odor Threshold</b>	N/A
<b>Flash Point</b>	> 110 °C (closed cup)
<b>Explosion Limits</b>	N/A
<b>Flammability</b>	N/A
<b>Refractive Index</b>	N/A
<b>Water Solubility</b>	Negligible

N/A = not available

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## 10. STABILITY AND REACTIVITY

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<b>Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Heat.
<b>Materials to Avoid:</b>	Strong oxidizing agents. Strong acids.
<b>Hazardous Decomposition Products:</b>	In combustion, emits toxic fumes including carbon monoxide, carbon dioxide, and hydrogen fluoride.
<b>Hazardous Polymerization Reactions:</b>	Unless inhibited, product can polymerize, raising temperature and pressure, possibly rupturing container. Check inhibitor content often adding to melted bulk liquid if needed.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Route Of Exposure</b>	
<b>Skin contact:</b>	Causes skin irritation.
<b>Multiple routes:</b>	Vapor or mist is irritating to the eyes, mucous membranes, and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption.
<b>Signs And Symptoms Of Exposure:</b>	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## 12. ECOLOGICAL INFORMATION

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No data available.

<b>General:</b>	Take care to prevent chemicals from entering the ground, water courses or drainage systems.
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## 13. DISPOSAL CONSIDERATIONS

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<b>Disposal Operations:</b>	Dissolve 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 environmental regulations.
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**14. TRANSPORTATION INFORMATION**

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<b>Mode</b>	DOT/IMDG/IATA
<b>UN Number</b>	None. Non-hazardous for transport.
<b>Class (Subsidiary)</b>	None. Non-hazardous for transport.
<b>Proper Shipping Name</b>	None. Non-hazardous for transport.
<b>Hazard Label (Subsidiary)</b>	None. Non-hazardous for transport.
<b>Packing Group</b>	None. Non-hazardous for transport.
<b>Shipping Hazard Label</b>	None. Non-hazardous for transport.

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**15. REGULATORY INFORMATION**

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**EU Additional Classification**

<b>Symbol of Danger:</b>	Xi 
<b>Indication of Danger:</b>	Irritant.
<b>R:</b>	36/37/38
<b>Risk Statements:</b>	Irritating to eyes, respiratory system and skin.
<b>S:</b>	26-36
<b>Safety Statements:</b>	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

**US Classification And Label Text**

<b>Indication of Danger:</b>	Irritant.
<b>Risk Statements:</b>	Irritating to eyes, respiratory system and skin.
<b>Safety Statements:</b>	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye / face protection.

**United States Regulatory Information**

**SARA Listed:** No

**Canada Regulatory Information**

<b>WHMIS Classification:</b>	This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
<b>DSL:</b>	Yes
<b>NDSL:</b>	No

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**16. OTHER INFORMATION**

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<b>Legal Disclaimer:</b>	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
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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