



# Material Safety Data Sheet

## FC06-08 2-Perfluorooctyl Ethyl Acetate

Revised 12-August-2009

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Material Identification

**Product name:** FC06-08  
**Chemical name:** 2-Perfluorooctyl ethyl acetate;  
1*H*,1*H*,2*H*,2*H*-Heptadecafluorooctyl-1-acetate  
**Chemical formula:** CH<sub>3</sub>C(O)OCH<sub>2</sub>CH<sub>2</sub>(CF<sub>2</sub>CF<sub>2</sub>)<sub>4</sub>F  
C<sub>12</sub>H<sub>7</sub>F<sub>15</sub>O<sub>2</sub>

#### 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/INFORMATION ON INGREDIENTS

#### Components

Material	CAS Number	EINECS	TSCA Listed	Amount
2-(Perfluorooctyl)ethyl acetate	37858-04-1	NA	NA	> 98 %

### 3. HAZARDS IDENTIFICATION

#### Potential Health Effects

**Skin contact:** May cause irritation.  
**Eye contact:** May cause irritation.  
**Inhalation of spray or mist:** May cause nasal, throat, or lung irritation.  
**Inhalation of large amounts:** May be toxic to the lungs.  
**Symptoms:** May be modest initially, followed in hours by severe shortness of breath requiring prompt medical attention.

#### Carcinogenicity Information:

None of the components present in this material at concentrations equal to or greater than 0.1 % are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

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#### 4. FIRST AID MEASURES

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<b>Inhalation:</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
<b>Skin Contact:</b>	Flush skin with water after contact. Wash contaminated clothing before reuse.
<b>Eye Contact:</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
<b>Ingestion:</b>	If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.
<b>Note to Physicians:</b>	Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

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#### 5. FIRE FIGHTING MEASURES

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<b>Flammable Properties</b>	
Flash point:	> 95 °C
Method:	Closed cup
<b>Hazardous Decomposition Products:</b>	Hazardous decomposition products include carbon dioxide, carbon monoxide, and hydrogen fluoride. Toxic gases or particles may be formed during combustion. These products may cause severe eye, nose, throat, and lung irritation or toxic effects.
<b>Extinguishing Media:</b>	Water spray, foam, dry chemical, CO <sub>2</sub> .
<b>Fire Fighting Instructions:</b>	Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. Avoid breathing decomposition products.

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#### 6. ENVIRONMENTAL SECTION

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The result for PFOS and PFOA testing is Not Detected (Method Detection Limit = 0.004 ppm).

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#### 7. ACCIDENTAL RELEASE MEASURES

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<b>Personal Precautions:</b>	Refer to section 8 of SDS for personal protection details. If outside, do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Turn leaking containers leak-side up to prevent the escape of liquid.
<b>Environmental Precautions:</b>	Do not discharge into drains or rivers. Contain the spillage using bunding.
<b>Clean-up Procedures:</b>	Absorb into dry earth or sand. Transfer to a closable, labeled salvage container for disposal by an appropriate method.

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**8. HANDLING AND STORAGE**

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<b>Handling Requirements:</b>	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Use only in a fume hood.
<b>Storage Conditions:</b>	Store in cool, well-ventilated area. Keep container tightly closed.
<b>Suitable Packaging:</b>	Must only be kept in original packaging.

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**9. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

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<b>Engineering measures:</b>	Ensure there is sufficient ventilation of the area.
<b>Personal Protective Equipment</b>	
<b>Eye/face protection:</b>	Wear safety glasses. Ensure eye wash is at hand.
<b>Respirators:</b>	Self-contained breathing apparatus must be available in case of emergency.
<b>Protective clothing:</b>	Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, and jacket.
<b>Hand protection:</b>	Protective gloves.

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**10. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Boiling Point</b>	189 °C @ 760 mm Hg
<b>Melting Point</b>	- 20 °C
<b>Flash Point</b>	> 95 °C
<b>Solubility in Water</b>	Negligible
<b>Density</b>	1.6429 @ 18 °C
<b>Refractive Index</b>	1.3210 @ 25 C
<b>Form</b>	Clear liquid
<b>Color</b>	Colorless

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**11. 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.

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**12. TOXICOLOGICAL INFORMATION**

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<b>RTECS Number:</b>	Not listed
<b>Acute Toxicity LD50:</b>	No data reported
<b>Skin irritation:</b>	No data available
<b>Eye irritation:</b>	No data available

<b>Human experience:</b>	Excessive exposures may affect human health, as follows:
<b>Inhalation:</b>	Cough, shortness of breath. Symptoms may be delayed.
<b>Skin contact:</b>	Irritation, discomfort, rash.
<b>Eye contact:</b>	Excessive lachrymation, blurred vision, discomfort, irritation.
<b>Ingestion:</b>	Nausea, weakness.


**13. DISPOSAL CONSIDERATIONS**

<b>Disposal Operations:</b>	Material should be disposed of in accordance with local, state and federal regulations.
<b>Disposal of Packaging:</b>	Dispose of as special waste in compliance with local and national regulations. Observe all federal, state and local environmental regulations.  The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**14. TRANSPORTATION INFORMATION**

<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.

**15. REGULATORY INFORMATION**

<b>Hazard symbols:</b>	Irritant. 
<b>Risk Phrases:</b> <b>R36/37/38:</b>	Irritating to eyes, respiratory system and skin.
<b>Safety Phrases:</b> <b>S26:</b>	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>S36/37/39:</b>	Wear suitable protective clothing, gloves and eye/face protection.
<b>S45:</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Note:</b>	The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible

existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

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## 16. 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