# Material Safety Data Sheet

**FC02-06**
**Perfluorohexyl Ethylene**

Revised 12-August-2009

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Material Identification:**

**Product name:** FC02-06

**Chemical name:** Perfluorohexyl ethylene;
*1H,1H,2H*-Tridecafluorooct-1-ene

**Chemical formula:** $CH_2=CH(CF_2CF_2)_3F$
$C_8H_3F_{13}$

**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 # |
|---|---|---|---|---|
| Perfluorohexyl ethylene | 346.09 | > 97 % | 246-791-8 | 25291-17-2 |

## 3. HAZARDS IDENTIFICATION

**Flammable** Flash point = 20 °C

**Irritant** Irritating to skin, eyes, and respiratory system. May have harmful effects if inhaled or swallowed.
Avoid prolonged exposure.
Do not breathe vapor.
Use caution when handling.
Exposure to any chemical should limited.
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:**

**Inhalation:** Remove victim from source of exposure to fresh air. If breathing is difficult administer oxygen. Seek

medical attention.

**Eye contact:** 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.

**Skin contact:** 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.

**Ingestion:** Do not induce vomiting. Give water to victim to drink. Seek medical attention.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Medium:** Carbon dioxide, dry chemical powder, alcohol or polymer foam.

**Special Fire-Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Unusual Fire and Explosion Hazards/Decomposition of Product:** Emits toxic fumes under fire conditions.

## 6. ACCIDENTAL RELEASE MEASURES

**Steps to be Taken if Material is Released or Spilled:** 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.

## 7. HANDLING AND STORAGE

**IRRITANT**

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, on clothing.
Keep container tightly closed.
Ensure adequate ventilation during use.
Use only in a chemical fume hood.
Avoid sources of ignition.

**Storage:** Store in a cool, dry, well-ventilated area.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Fire And Explosion Protection：** Do not spray on a naked flame or any other incandescent material. Store in tightly sealed containers in a cool, well-ventilated place.

**Occupational Exposure Controls:**

| | |
|---|---|
| **Ventilation:** | Provide local ventilation suitable for the emission risk. |
| **Respiratory protection:** | In case of mist, spray, or aerosol exposure wear suitable personal respiratory protection and protective suit. |
| **Eye protection:** | Tightly fitting safety goggles. |
| **Hand protection:** | Wear impervious gloves. Wash hands thoroughly after handling. |
| **Skin and body protection:** | Wear lightweight protective clothing. Avoid contact with skin and eyes. Wash hands immediately after handling the product. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Boiling Point** | 105 °C @ 760 mm Hg |
| **Density** | 1.52 g/mL @ 25 °C |
| **pH** | No data |
| **Form** | Liquid |
| **Color** | Colorless |
| **Flash Point** | 20 °C (closed cup) |
| **Melting Point** | No data |
| **Refractive Index** | N(D) = 1.295 @ 20 °C |
| **Solubility in Water** | Negligible |

## 10. STABILITY AND REACTIVITY

| | |
|---|---|
| **Incompatibilities:** | Strong oxidizing agents, strong acids and bases. |
| **Hazardous Decomposition Products:** | May evolve carbon monoxide, carbon dioxide, and hydrogen fluoride. |
| **Polymerization:** | Homopolymerization will not occur. Copolymerization can occur in the presence of free radical sources, heat or UV light. |

## 11. TOXICOLOGICAL INFORMATION

**Acute Effects:** Irritant.

May be harmful by ingestion and inhalation. Material is irritating to mucous membranes and upper respiratory tract. To the best of our knowledge, the toxicological properties of this product have not been fully determined.

## 12. DISPOSAL CONSIDERATIONS

**Disposal:** 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.

## 13. TRANSPORTATION INFORMATION

**Mode** DOT/IMDG/IATA

| | |
|---|---|
| **UN Number** | UN1993 |
| **Class (Subsidiary)** | 3 |
| **Proper Shipping Name** | Flammable Liquid, n.o.s. |
| **Hazard Label (Subsidiary)** | Flammable Liquid |
| **Packing Group** | II |
| **Shipping Hazard Label:** | |


## 14. OTHER INFORMATION

**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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