



Material Safety Data Sheet

FC13-TE6-O-C5

1,1,1,2,2,3,3,4,4,5,5,6,6-Tridecafluoro-8-(Pentyloxy)Octane

Revised 12-August-2009

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification

Product name: TE6-O-C5
Chemical name: 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-(pentyloxy)octane
Chemical formula: C₆F₁₃CH₂CH₂OCH₂CH₂CH₂CH₂CH₃
C₁₃H₁₅F₁₃O
Synonym: N/A

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	EINECS #	CAS #
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-(pentyloxy)octane	434.10	N/A	None

3. HAZARDS IDENTIFICATION

Emergency Overview: Irritating to eyes, respiratory system and skin.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult give oxygen and seek medical attention.
Eye Contact: Flush with copious amounts of water for at least 15 minutes. If irritation persists, seek medical attention.
Skin Contact: Remove contaminated clothing. Wash affected

	area with soap and water. Rinse thoroughly. If irritation persists or other symptoms are observed, seek medical advice.
Ingestion:	Rinse out mouth and drink lots of water. In case of irritation or other symptoms, seek medical attention
If the Subject is Completely Conscious:	Rinse mouth and administer fresh water.
If the Subject is Unconscious:	Not applicable.
Medical Treatment/Notes to Physician:	None.

5. FIRE FIGHTING MEASURES

Flash Point:	89 °C (closed cup)
Extinguishing Methods	Use fire-fighting measures, which suit the environment and take into account other materials that may be involved. In general, water-based extinguishers should not be used for fires involving organic materials. Use carbon dioxide or dry powder.
Protective Equipment:	Wear self-contained breathing apparatus and protective clothing.
Hazardous Products of Combustions:	May include carbon monoxide, carbon dioxide, hydrogen fluoride (hydrofluoric acid).

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear protective equipment including rubber gloves, and eye protection. Keep unprotected persons away.
Environmental Precautions:	Take precautions to ensure product does not contaminate the ground or enter the drainage system.
Waste Collections:	Mix with vermiculite or proprietary absorbent material and transfer to sealed containers for disposal.

7. HANDLING AND STORAGE

Handling Requirements:	Chemicals should be used only by those trained in handling potentially hazardous materials. Rubber gloves, eye protection and protective clothing should be worn. Operations should be carried out in an efficient fume hood or equivalent system.
Storage Conditions:	Store in tightly sealed containers in a cool place. Protect from moisture.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Controls:

Respiratory:	Avoid inhalation of product. Handle in an efficient fume hood or equivalent system.
Hand and body protection:	Irritant product. Avoid skin contact. Wear rubber gloves, protective clothing and, for larger quantities, full arm, body and face protection. Wash hands thoroughly after handling.
Eye protection:	Avoid eye contact. Wear safety spectacles, goggles or, for larger quantities, a full face mask.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	Colorless
Boiling Point	198 °C
Melting Point	-44 °C
Flash Point	89 °C (closed cup)
Specific Gravity (H₂O = 1):	1.3710 g/ml @ 26.7 °C
Oxidizer	Non-oxidizing (by EC criteria)

10. STABILITY AND REACTIVITY

Materials and Substances to Avoid:	Strong bases. Strong oxidizing agents.
Hazardous Decomposition Products:	May include: carbon monoxide, carbon dioxide, hydrogen fluoride (hydrofluoric acid).

11. TOXICOLOGICAL INFORMATION

RTECS No.	Not listed.
Acute Toxicity:	LD ₅₀ : Not available. Irritating to eyes, respiratory system and skin.

12. ECOLOGICAL INFORMATION

General:	Take care to prevent chemicals from entering the ground, water courses or drainage systems.
-----------------	---

13. DISPOSAL CONSIDERATIONS

Disposal Treatment:	Disposal should be via an approved contractor and should take full account of local regulations.
----------------------------	--

14. TRANSPORT INFORMATION

Shipping Information:	Not regulated as a hazardous material by DOT, IMO, or IATA.
DOT Proper Shipping Name:	None. Non-hazardous for transport.
UN Number:	None. Non-hazardous for transport.

15. 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.

To our actual knowledge, the information contained herein is accurate as of the date of this document. However, neither Fluoryx Inc., nor any of its affiliates makes any warranty, express or implied, or accepts any liability in connection with this information or its use. This information is for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right. The user alone must finally determine suitability of any information or material for any contemplated use, the manner of use and whether any patents are infringed. This information gives typical properties only and is not to be used for specification purposes.

End of MSDS