



Material Safety Data Sheet

FC13-894o

1,1,2,2-Tetrafluoroethyl-2-Methylphenyl Ether

Revised 12-August-2009

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification

Product name: HFE-894o
Chemical name: 1,1,2,2-Tetrafluoroethyl-2-Methylphenyl Ether
Chemical formula: o-CH₃C₆H₄OCF₂CF₂H
C₉H₈F₄O

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 | CAS # |
|---|------------------|----------------|------------|
| 1,1,2,2-Tetrafluoroethyl-2-Methylphenyl Ether | 208.16 | ≥ 99 % | 42145-66-4 |

3. HAZARDS IDENTIFICATION

Emergency Overview: Flammable. 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

Ingestion: area with soap and water. Rinse thoroughly. If irritation persists or other symptoms are observed, seek medical advice.

If the Subject is Completely Conscious: Rinse out mouth and drink lots of water. In case of irritation or other symptoms, seek medical attention.

If the Subject is Unconscious: Rinse mouth and administer fresh water.

Medical Treatment/Notes to Physician: Not applicable.

None.

5. FIRE FIGHTING MEASURES

Flash Point: 55.5 °C (closed cup); flammable

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 | Clear |
| Boiling Point | 162 °C @ 760 mm Hg |
| Flash Point | 55.5 °C (closed cup) |
| Ozone Depletion Potential | 0 |
| Global Warming Potential | Not determined |
| Specific Gravity (H₂O = 1): | 1.2526 g/ml @ 21.4 °C |
| Refractive Index | 1.42552 @ 25 °C |
| Viscosity (mpa*s) | Not determined |
| Ames Test | Not determined |
| 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 determined. |
| 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

Waste Treatment:

Packaging Treatment:

Operation Treatment:

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

14. TRANSPORT INFORMATION

Shipping Information:

Class 3 hazardous material by DOT, IMO, and IATA.

DOT/IATA Proper Shipping Name:

Flammable liquid (ethers), N.O.S

UN Number:

UN 1993; packing group III

Shipping Hazard Label:



15. REGULATORY INFORMATION

Hazard Symbols:

Flammable (flame); Irritant (Xi).



Note:

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.

16. 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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