

SEVOFLURANE USP

Material Safety Data Sheet

Identification of the Company

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1. IDENTIFICATION

Common Name: Sevoflurane

Formula: C₄H₃F₇O

Synonym : n/f

Chemical Name: 1, 1, 1, 3, 3, 3-hexafluoro-2-(fluoromethoxy)propane

CAS Number: 28523-86-6 **RTECS Number:** KO0737000

Chemical Family: Halogenated hydrocarbon (methyl ethyl ether)

Therapeutic Category: Anesthetic (inhalation)

2. HAZARD INFORMATION

EMERGENCY OVERVIEW-This material can cause loss of consciousness if inhaled.

Adverse Effects: Sevoflurane produces loss of consciousness and muscle relaxation when inhaled. Other adverse effects may include difficulty breathing, changes in heart rate or blood pressure, agitation, fever, cough, dizziness, drowsiness, nausea, increased salivation, shivering, vomiting, and headache. Possible allergic reaction to material if inhaled, ingested or in contact with skin.

Overdose Effects: Effects of overdose may include slowed heartbeat, low blood pressure, circulatory depression or collapse, respiratory depression, lack of breathing, and cardiac arrest.

Acute: Possible eye, skin, gastrointestinal and/or respiratory tract irritation.

Chronic: Possible hypersensitization.

Medical Conditions Aggravated by Exposure: Hypersensitivity to material and history of malignant hyperthermia.

Cross Sensitivity: Persons sensitive to other halogenated ether hydrocarbons may be sensitive to this material also.

Target Organs: Central nervous system, cardiovascular system, respiratory system

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name: Sevoflurane

Formula: C₄H₃F₇O

Composition: Pure Material

4. FIRST AID MEASURES

Inhalation: May cause irritation and loss of consciousness. Avoid inhalation. Remove to fresh air. This material is rapidly absorbed by the lungs.

Eye: May cause irritation. Flush with copious quantities of water.

Skin: May cause irritation. Flush out mouth with water.

Ingestion: May cause irritation. Flush out mouth with water.

General First Aid Procedures: Remove from exposure. Remove contaminated clothing. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. If person is not breathing give artificial respiration. If breathing is difficult give oxygen. Obtain medical attention.

Note to Physicians

Overdose Treatment: Treatment of overdose should be symptomatic and supportive and may include the following:

1. Maintain patent airway and initiate assisted or controlled ventilation with oxygen.
2. Maintain adequate cardiovascular function with general measures of circulatory support. [USP DI 2005]

5. FIREFIGHTING MEASURES

Extinguisher Media: Water spray, dry chemical, carbon dioxide or foam as appropriate for surrounding fire and materials.

Firefighting Procedures: As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

Fire and Explosion Hazards: This material is nonflammable.

6. ACCIDENTAL RELEASE MEASURES

Spill Response: Wear approved respiratory protection, chemically compatible gloves and protective clothing. Wipe up spillage or collect spillage using a high efficiency vacuum cleaner. Avoid breathing vapors. Place spillage in appropriately labeled container for disposal. Wash spill site.

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7. HANDLING AND STORAGE

Handling: As a general rule, when handling USP Reference Standards avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wash thoroughly after handling.

Storage: Stored in a cool and dry place away from light and sealed.

8. EXPOSE CONTROL/PERSONAL PROTECTION

Engineering Controls: Engineering controls such as exhaust ventilation are recommended.

Respiratory Protection: Use a NIOSH-approved respirator, if it is determined to be necessary by an industrial hygiene survey involving air monitoring.

Gloves: Chemically compatible

Eye Protection: Safety glasses or goggles

Protective Clothing: Protect exposed skin.

9. PHYSICAL AND CHEMICAL PROPERTIES

The data reported below is general information, and is not specific to the USP Reference Standard Lot provided!

Appearance and Odor: Clear transparent liquid; penetrating odor.

Melting Point: n/f

Solubility in Water: Insoluble

Vapor Density: n/f

Boiling Point: 58°C

Evaporation Rate: n/f

Specific Gravity: n/f

Reactivity in Water: n/f

Vapor Pressure: n/f

Volatile by Volume: n/f

10. STABILITY AND REACTIVITY

Conditions to Avoid: Avoid exposure to heat.

Incompatibilities: n/f

Decomposition Products: When heated to decomposition material emits toxic fumes of HF. Emits toxic fumes under fire conditions.

Hazardous Polymerization: No

Stable: yes

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11. TOXICOLOGICAL PROPERTIES

Oral Rat: LD50: 10800 mg/kg

Oral Mouse: LD50: 18200 mg/kg

Listed as a Carcinogenicity by:

NTP: No **IARC:** No **OSHA:** No

Irritancy Data: n/f

Mutagenicity Data: No mutagenic effect was observed in the Ames test. No chromosomal aberrations were induced in cultured mammalian cells.

Reproductive and Developmental Effects: Studies in rats and rabbits showed no fetal damage at the highest nontoxic dose. Sevoflurane has been used in women undergoing cesarean section with no harmful effects on mothers or newborns.

12. ECOLOGICAL INFORMATION

Ecological information: n/f

13. DISPOSAL CONSIDERATIONS

Disposal: Dispose of waste in accordance with all applicable Federal, State and local laws.

14. TRANSPORT INFORMATION

Shipping name: Aviation regulated liquid, n.o.s.

Class: the substance is irritant, so it is classified in Class 9(Miscellaneous Dangerous Goods)

UN number: UN3334

15. REGULATORY INFORMATION

U.S. Regulatory Information: n/f

International Regulatory Information:n/f

16. OTHER INFORMATION

The substance presents no explosive hazard.

The substance does not belong to flammable solid.

The substance does not belong to oxidizing substances.

The substance does not belong to toxic substances.

The substance does not belong to radioactive material.

The substance does not belong to corrosives.

The substance is irritant, so it is classified in class 9(Miscellaneous Dangerous Goods)