

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name 1,1,1,3,3,3-Hexafluoro-2-methoxypropane

CAS No. 13171-18-1

Trade Names Sevo methyl ether; Sevoflurane related Compound B,

SME

Product Code None

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)

U.S. FDA regulated drug intermediate

Uses Advised Against For FDA uses only. Not for uses regulated under EPA TSCA.

Identity of manufacturer/importer and other suppliers

Company Identification Halocarbon Life Sciences, LLC

6525 The Corners Parkway; Suite 200

Peachtree Corners, GA 30092

Telephone (470) 419-6363

E-Mail (competent person) sds@halocarbon.com

Emergency telephone number

Emergency Phone No. CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887

(Collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Label elements

Hazard Symbol

Specific target organ toxicity — single exposure: Category 3



Signal Word(s)

WARRING

Hazard Statement(s) H336: May cause drowsiness or dizziness.

Precautionary Statement(s) P261: Avoid breathing vapours.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P264: Wash hands and exposed skin thoroughly after handling.

P301+P330: IF SWALLOWED: Rinse mouth. Treat symptomatically.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313:

If eye irritation persists: Get medical advice/attention.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P363: Wash contaminated clothing

before reuse.

Revision: August 11, 2020 Page: 1/6



P102: Keep out of reach of children. Avoid exposure during pregnancy.

Other hazards

Similar substances have produced reproductive and/or developmental effects in laboratory animals or have been implicated in higher than normal incidences of problem pregnancies among persons exposed to anesthetic gases of this type.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	% wt.	CAS No.
Sevo methyl ether (SME) *	> 99.9	13171-18-1

^{* 1,1,1,3,3,3-}Hexafluoro-2-methoxypropane

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation Not normally required. Move person to fresh air. If breathing is

laboured, administer oxygen. If symptoms develop, obtain medical

attention.

Skin Contact Take off immediately all contaminated clothing. Rinse skin with

water/shower. If irritation (redness, rash, blistering) develops, get medical attention. Wash contaminated clothing before reuse

Eye Contact Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation

persists, get medical advice/attention.

Ingestion Rinse mouth. Get medical attention.

Most important symptoms and effects, both acute and

delayed

None known.

Indication of any immediate medical attention and

special treatment needed

None known.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media

-Unsuitable Extinguishing Media

Special hazards arising from the substance or

mixture

Non-flammable / Non-combustible. As appropriate for surrounding fire.

None known.

None known.

Advice for fire-fighters A self contained breathing apparatus and suitable protective clothing

should be worn in fire conditions.

Hazardous decomposition product(s)

Thermal decomposition products include: Carbon monoxide, Carbon

dioxide, and hydrogen fluorides.

Revision: August 11, 2020 Page: 2/6



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and

emergency procedures

Wear protective gloves/eye protection. Avoid breathing

mist/vapors/spray.

Environmental precautions

Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Follow the Spill clean up guidelines as suggested in the Hazardous and non-hazardous waste regulations. Transfer to a container for

disposal or recovery.

Reference to other sections

Additional Information

See Section: 7 - Incompatible materials

None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Avoid contact with skin and eyes. Wear protective gloves/eye

protection/face protection. Wash hands and exposed skin thoroughly after handling. Avoid breathing vapors. Avoid exposure during

pregnancy. See Section: 11

Hygiene Measures Wash hands and exposed skin thoroughly after handling. Do not eat,

drink or smoke when using this product.

Environmental Exposure Controls Avoid release to the environment. Keep containers properly sealed

when not in use. Avoid run off to waterways and sewers.

Conditions for safe storage, including any incompatibilities

-Storage temperature Store at room temperature. Keep only in original or other compatible

container.

-Incompatible materials Strong oxidising agents.

Specific end use(s) Cleaning / degreasing solvent

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

		(8hr TWA)			STEL	
		PEL	TLV	PEL	TLV	
SUBSTANCE.	CAS No.	(OSHA)	(ACGIH)	(OSHA)	(ACGIH)	Note:
None						

Recommended monitoring methodOSHA Method 106. Portable flame-ionization detectors are suitable for

area monitoring.

Exposure controls

Appropriate engineering controls

Use only with adequate ventilation or closed system ventilation. Use closed dosing, transfer, sampling and application systems including connectors. Formulate in enclosed or ventilated mixing vessels.

Contact supplier for specific control measures required for

loading transport containers.

Personal protection equipment

Revision: August 11, 2020 Page: 3/6



Eye/face protection

Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other)

Wear protective gloves. (Neoprene)





Respiratory protection



Not normally required. In poorly ventilated areas or confined spaces, use an airline respirator or self-contained breathing apparatus.

Environmental Exposure Controls

Avoid release to the environment. Keep containers properly sealed when not in use. Avoid run off to waterways and sewers.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Liquid

Color. Clear Colourless
Odor Not available
Odor Threshold (ppm) Not available
pH (Value) Not available

Melting Point (°C) / Freezing Point (°C)

Not available 50 (122 °F)

Flash Point (°C) > 93 (> 200 °F) - Did not flash.

Evaporation Rate

Flammability (solid, gas)

Explosive Limit Ranges

Not applicable

Not applicable

Vapour pressure (Pascal) 36,100 @ 25 °C (270.8 mmHg @ 77 °F)

Vapour Density (Air=1)

Density (g/ml)

Solubility (Water)

Solubility (Other)

Partition Coefficient (n-Octanol/water)

Auto Ignition Point (°C)

Not applicable

1.38 (11.5 lb/gal)

0.0014 g/ml

Not available

Not available

Auto Ignition Point (°C)

Decomposition Temperature (°C)

Kinematic Viscosity (cSt)

Explosive properties

Oxidizing properties

Other information

Not available

Not available

Not oxidizing.

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactionsNone anticipated.Conditions to avoidIncompatible materials

Revision: August 11, 2020 Page: 4/6



Incompatible materials Strong oxidising agents, Alkalis and alkali metals, Aluminum, Zinc,

Alkaline earth metals.

Hazardous decomposition product(s)

Thermal decomposition products include: Carbon monoxide,

Carbon dioxide, and hydrogen fluorides.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Acute toxicity Oral: LD50 >5000 mg/kg-bw

Dermal: LD50 >5000 mg/kg-bw

Inhalation: LC50 >24684 ppm (4-hour) (rat)

Irritation/Corrosivity Slight irritant to rabbit eyes. Slight irritant to rabbit skin.

Sensitization It is not a skin sensitiser in animal tests.

Repeated dose toxicity

Not to be expected (By analogy with similar materials)

Carcinogenicity No data.

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Mutagenicity (By analogy with similar materials)

Not to be expected (By analogy with similar materials)

Reproductive toxicity

No data. Similar substances have produced reproductive and/or developmental effects in laboratory animals or have been implicated in higher than normal incidences of problem pregnancies among persons exposed to anesthetic gases of this type. Avoid exposure during pregnancy.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Short term EC50 (48 hour) >125.7 mg/L (Daphnia magna)

EC50 (72 hour) >129.8 mg/L (Pseudokirchneriella subcapita)

Long Term Not to be expected.

Persistence and degradability

Not readily biodegradable. Readily volatilizes from water.

Bioaccumulative potential

The substance has low potential for bioaccumulation.

Mobility in soil Not available.

Results of PBT and vPvB assessment Not classified as PBT or vPvB.

Other adverse effects None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Disposal should be in accordance with local, state or national

legislation. Consult an accredited waste disposal contractor or the local

authority for advice.

SECTION 14: TRANSPORT INFORMATION

Land transport (U.S. DOT)

Sea transport (IMDG)

Air transport (ICAO/IATA)

UN number

Proper Shipping Name

Not classified as dangerous for transport.

UN 3334
Aviation regulated liquid, n.o.s.
(Sevoflurane Related Compound B)

Revision: August 11, 2020 Page: 5/6



Transport hazard class(es)
Packing group
Environmental hazards
Special precautions for user

III No.

Subject to quantity restrictions/limitations

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act): Not produced for uses regulated under TSCA.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None			

SARA 311/312 - Hazard Categories: See SECTION 2 - HAZARDS IDENTIFICATION

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None		

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None			

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
None		

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 & 3

Date of preparation: August 11, 2020

Additional Information: None

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

Revision: August 11, 2020 Page: 6/6