

SAFETY DATA SHEET

Issuing Date: 27-Jun-2011 Revision Date: 27-Oct-2021

1. Identification

Product identifier

SDS Number: 1087966
Product Name: Sevoflurane

Other means of identification

Product Code(s): NDC 10019-651-03, NDC 10019-651-02, NDC 10019-651-64, NDC 10019-653-64

Synonyms: ether, fluoromethyl 2,2,2-trifluoro-1-(trifluoromethyl)ethyl-, fluoromethyl

2,2,2-trifluoro-1-(trifluoromethyl)ethyl ether,

1,1,1,3,3,3-hexafluoro-2-(fluoromethoxy)propane, MR6S4, propane,

1,1,1,3,3,3-hexafluoro-2-(fluoromethoxy)-, Sevofrane, Travenol, Sevorane, general

inhalation volatile anaesthetic halogenated ether

Recommended use of the chemical and restrictions on use

Product Use: Anesthetic.

Product Type: Regulated Prescription Drug
Uses advised against No information available

Details of manufacturer or importer

Baxter Healthcare Pty. Ltd.

1 Baxter Drive

Old Toongabbie NSW 2146 Australia

Telephone: (02) 98481111

Emergency telephone number

Australia: 1 800 229 837 and Poison Information Centre 13 11 26

Verisk 3E Global Incident Response Hotline +1 760 476 3962; Access Code 335625

2. Hazard(s) identification

GHS Classification

None	
Serious eye damage/eye irritation	Category 2 - (H319)
Reproductive toxicity	Category 2 - (H361)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)

Label elements

Exclamation mark Health hazard





Signal word Warning

Hazard statements

H319 - Causes serious eye irritation

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF IN EYES: 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

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards which do not result in classification

General Hazards No information available

3. Composition/information on ingredients

Chemical Name	CAS No.	Weight-%
Sevoflurane	28523-86-6	100
28523-86-6		

4. First-aid measures

Description of first aid measures

General Advice Treat symptomatically and supportively.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Get medical attention.

Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get

medical attention.

Skin contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated

clothing and shoes. Get medical attention if irritation develops.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give

anything by mouth to an unconscious person. If large quantities of this material are

swallowed, call a physician immediately.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

A dose less than that needed to produce anesthesia (approximately 2%) may result in symptoms such as dizziness. Causes eye irritation. Contains a known or suspected reproductive toxin. See patient package insert in shipping carton for complete information.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. See patient package insert in shipping carton for complete information.

5. Fire-fighting measures

Suitable Extinguishing Media

Use extinguishing media suitable for surrounding materials.

Specific hazards arising from the chemical

No information available

Special protective actions for fire-fighters

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Depending on local ventilation, clean-up crews may need to wear a chemical cartridge respirator, with a cartridge for organic vapors. Self-contained breathing apparatus may be needed in extreme circumstances. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).

Other information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Do not allow material to contaminate ground water system.

Methods and material for containment and cleaning up

Methods for Containment:

Small volumes of liquid anesthetic agents may evaporate readily at normal room temperatures, and may dissipate before any clean up attempts are initiated. For large spills, one or more bottles break, ensure adequate ventilation or evacuate area. Large volumes of anesthetic agents may cause sedative effects.

Methods for cleaning up:

Restrict persons not wearing protective equipment from areas of spills or leaks until clean up is complete. Large spills should be absorbed using a sorbent that is designed for clean up of organic chemicals. Spill pillows, vermiculite, and carbon-based sorbents are some suitable materials. Keep in suitable, closed containers for disposal

Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling

Technical measures/precautions: Wash thoroughly after handling.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear

suitable gloves and eye/face protection.

Conditions for safe storage, including any incompatibilities

Technical measures and storage

Keep container tightly closed. Keep in a cool, well-ventilated place. Store between 15-30°C

(59 to 86°F). Do not freeze.

Incompatible materials: Strong bases. Alkaline earth metals

8. Exposure controls/personal protection

Control parameters

conditions:

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Chemical Name	Australia nohsc:	ACGIH TLV
Sevoflurane - 28523-86-6	-	-

Appropriate engineering controls

Engineering Measures Use process enclosures, local exhaust ventilation, or other engineering controls to keep

airborne levels below recommended exposure limits. Well designed and maintained scavenging system on the anesthesia equipment (combined with a good general room

ventilation) is important in limiting the exposures of all personnel.

Individual protection measures, such as personal protective equipment

Eye/face protection Normal final product use: wear safety glasses during the vaporizer filling process. Use in

manufacturing or laboratory setting: safety glasses with face shield, chemical splash goggles, or other full face protection should be available for use if potential exists for

splashes.

Skin and body protection Work uniform or laboratory coat. Additional body garments should be used based upon the

task being performed (e.g., sleevelets, apron, gauntlets, disposable suits).

Hand protection Use chemical resistant, impervious gloves.

Respiratory protection Personal respiratory protection equipment not typically required if engineering controls are

in place. If exposure levels may exceed regulatory limits, implement a respiratory protection program including respiratory protection that is in compliance with OSHA 29

CFR1910.134 (in the US) or equivalent regulation in other regions.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Liquid

Appearance: Aqueous solution.
Color: Clear, Colorless.
Odor: No information ava

Odor: No information available
Odor Threshold: No information available
pH: No information available

Melting point / melting range: 25 °C

Boiling point / boiling range: 58.6°C (137.5°F) **Flash point:** Not determined

Evaporation rate: >1

Flammability (solid, gas):

Flammable limits

No information available
No information available

in air-upper (%):

Flammable limits No information available

in air-lower (%):

Vapor pressure: 157 mm Hg @ 20°C 197 mm Hg @ 25°C

317 mm Hg @ 36°C

Vapor densityNo information availableDensity:No information availableSolubility:Slightly soluble in water.

Partition coefficient logP = 1.750

(n-octanol/water):

Autoignition temperature:No information availableDecomposition temperatureNo information availableViscosity:No information availableExplosive Properties:No information availableOxidizing Properties:No information available

Other information

Molecular weight: 200.05 g/mole

10. Stability and reactivity

Reactivity

No information available.

Chemical stability

Stable under recommended storage conditions

Possibility of hazardous reactions

None under normal use conditions

Conditions to Avoid

Do not freeze. Avoid excessive heat.

Incompatible materials

Alkali metals. Strong bases.

Hazardous decomposition products

These products are halogenated compounds (hydrochloric and hydroflouric acids).

11. Toxicological information

Acute toxicity

Information on likely routes of exposure

Product Information .

Inhalation: Practically non-toxic by inhalation. Cardiovascular effects (may include fluctuations in heart

rate, changes in blood pressure, chest pain). Respiratory effects (may include shortness of breath, bronchospasms, laryngospasms, respiratory depression). Gastrointestinal effects (may include nausea, upset stomach, loss of appetite). Nervous System effects (may include ataxia, tremor, disturbance of speech, lethargy, headache, dizziness, blurred vision). Hypersensitivity (may include drug fever, rash, itching, anaphylaxis).

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Eye contact: May cause eye irritation.

Skin contact: May cause skin irritation.

Ingestion: Practically non-toxic if swallowed. No specific hazards other than therapeutic effects.

Symptoms: No information available

Numerical measures of toxicity - Product Information

No information available

Unknown acute toxicity No information available

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sevoflurane	= 10800 mg/kg (Rat)	-	28800 ppm 3 h (Rat)
28523-86-6			

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Corrosivity: None

Irritation: Irritating to eyes. Mild skin irritation.

Sensitization: Not classified.

Mutagenic effects: Not mutagenic in a standard battery of genetic toxicological tests.

Carcinogenic effects: Not classified.

Reproductive toxicity: Contains a known or suspected reproductive toxin. Epidemiological studies suggest higher

than normal incidences of problem pregnancies (particularly spontaneous abortions)

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among exposed personnel.

STOT - single exposure: Not classified.

STOT - repeated exposure: Target organs

Aspiration Hazard: Not classified.

12. Ecological information

Ecotoxicity

No information available

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sevoflurane 28523-86-6	-	-	-	-

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Chemical Name	Partition coefficient	
Sevoflurane	-	
28523-86-6		

Mobility

No information available

Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

Chemical Name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Endocrine disrupting potential
Sevoflurane 28523-86-6	-	-	-

13. Disposal considerations

Waste treatment methods

Waste from residues/unused

products

In accordance with local and national regulations

Contaminated Packaging In accordance with local and national regulations

14. Transport information

ADG Not regulated

IATA Not regulated

UN number UN3334 Packing Group III

IMDG Not regulated

15. Regulatory information

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

National regulations

Australia

See section 8 for national exposure control parameters

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

No poisons schedule number allocated

International Inventories

TSCA Does not comply **DSL/NDSL** Does not comply **EINECS/ELINCS** Does not comply Does not comply **ENCS IECSC** Does not comply Does not comply **KECL PICCS** Does not comply **AICS** Does not comply **NZIOC** Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals and Chemical Substances

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

16. Other information

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Revision Note:

New GHS format. Changes to Section 9. Changes to Section 1. Changes to Section 14. Additional product codes. Change to product codes. Changes to Section 2.

Key or legend to abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
TWA TWA (time-weighted average)
STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

* Skin designation

C Carcinogen

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

Disclaimer

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End of Safety Data Sheet