

Etoposide SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Etoposide
- **Catalog Number:** S1225
- **CAS Number:** 33419-42-0
- **IUPAC Name:** Furo[3',4':6,7]naphtho[2,3-d]-1,3-dioxol-6(5aH)-one, 9-[(4,6-O-ethylidene-β-D-glucopyranosyl)oxy]-5,8,8a,9-tetrahydro-5-(4-hydroxy-3,5-dimethoxyphenyl)-, [5R-[5α,5aβ,8aα,9β(R*)]]-

Relevant identified uses and uses advised against

- **Identified uses:** For research and development use only; laboratory chemicals; manufacture of substances.
- **Uses advised against:** Not for pharmaceutical, household, or other unapproved uses.

Details of the supplier

- **Company :** Selleck Chemicals
- **TollFree :** +1 877 796-6397
- **Tel :** +1 832 582-8158
- **Fax :** +1 832 582-8590

Emergency telephone number

- **Emergency phone #:** +1 832 582-8158

2. Hazards identification

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

- Acute toxicity, Oral (Category 4), H302
- Carcinogenicity (Category 1B), H350
- Reproductive toxicity (Category 2), H361

GHS Label elements, including precautionary statements

Pictogram:



Signal Word: Danger

Hazard Statements

- H302: Harmful if swallowed.
- H350: May cause cancer.
- H361: Suspected of damaging fertility or the unborn child.

Precautionary Statements

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P264: Wash skin thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
- P308 + P313: IF exposed or concerned: Get medical advice/ attention.
- P405: Store locked up.
- P501: Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC)

None.

3. Composition/information on ingredients

Substances

- **Formula:** Furo[3',4':6,7]naphtho[2,3-d]-1,3-dioxol-6(5aH)-one, 9-[(4,6-O-ethylidene-β-D-glucopyranosyl)oxy]-5,8,8a,9-tetrahydro-5-(4-hydroxy-3,5-dimethoxyphenyl)-, [5R-[5α,5aβ,8aα,9β(R*)]]-
- **Molecular weight:** 588.56 g/mol
- **CAS-No.:** 33419-42-0
- **EC-No.:** 251-509-1

Component Information

- **Component:** Etoposide
- **Classification:** Acute Tox. 4; Carc. 1B; Repr. 2; H302, H350, H361
- **Concentration:** ≤ 100 %

4. First aid measures

Description of first-aid measures

- **General advice:** Consult a physician and show this safety data sheet to the attending doctor.
- **If inhaled:** Move person to fresh air. If breathing is difficult, seek medical attention.
- **In case of skin contact:** Immediately remove all contaminated clothing. Rinse skin with water or shower and consult a physician.
- **In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes, removing contact lenses if present. Consult an ophthalmologist.

- **If swallowed:** Provide the victim with no more than two glasses of water. Consult a physician immediately.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the hazard labelling (Section 2.2) and toxicological information (Section 11).

Indication of any immediate medical attention and special treatment needed

N/A.

5. Firefighting measures

Extinguishing media

- **Suitable extinguishing media:** Water, foam, carbon dioxide (CO₂), or dry powder.
- **Unsuitable extinguishing media:** No limitations of extinguishing agents are specified for this substance.

Special hazards arising from the substance or mixture

The substance is combustible. Carbon oxides may be released. Hazardous combustion gases or vapors may develop in the event of a fire.

Advice for firefighters

Firefighters should wear self-contained breathing apparatus and maintain a safe distance or wear suitable protective clothing to prevent skin contact.

Further information

Prevent fire extinguishing water from entering surface water or groundwater systems.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid the generation and inhalation of powder. Ensure adequate ventilation and avoid contact with the substance. Evacuate the danger area and consult an expert. For personal protection, see section 8.

Environmental precautions

Do not allow the product to enter drains.

Methods and materials for containment and cleaning up

Cover drains and collect spills. Carefully take up the material while avoiding the generation of powder. Dispose of the material properly and clean the affected area.

Reference to other sections

For disposal instructions, see section 13.

7. Handling and storage

Precautions for safe handling

Handling should be performed under a chemical fume hood. Do not inhale the powder. Practice good hygiene by immediately changing contaminated clothing and washing hands and face after handling the substance.

Conditions for safe storage, including any incompatibilities

Keep the container tightly closed in a dry, well-ventilated place. The storage area must be locked up or accessible only to authorized personnel. Recommended storage temperature is provided on the product label.

- **Storage class (TRGS 510):** 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which cause chronic effects.

Specific end use(s)

No other specific uses are stipulated apart from those mentioned in section 1.2.

8. Exposure controls/personal protection

Control parameters

Contains no substances with occupational exposure limit values.

Exposure controls

- **Appropriate engineering controls:** Maintain good industrial hygiene by washing hands and face after work and changing contaminated clothing immediately.
- **Eye/face protection:** Use safety glasses tested and approved under standards such as NIOSH (US) or EN 166 (EU).
- **Skin protection:** Use nitrile rubber gloves (minimum thickness 0.11 mm, break through time 480 min).
- **Body Protection:** Wear appropriate protective clothing.
- **Respiratory protection:** Required when powder is generated. Recommended filter type: P3 (standardized under DIN EN 143 or 14387).
- **Control of environmental exposure:** Do not let product enter drains.

9. Physical and chemical properties

Information on basic physical and chemical properties

- **Appearance:** Form: powder
- **Odor:** N/A
- **Odor Threshold:** N/A
- **pH:** N/A
- **Melting point/freezing point:** 236 - 251 °C (457 - 484 °F)
- **Initial boiling point and boiling range:** N/A
- **Flash point:** N/A
- **Evaporation rate:** N/A
- **Flammability (solid, gas):** N/A
- **Upper/lower flammability or explosive limits:** N/A
- **Vapor pressure:** N/A

- **Vapor density:** N/A
- **Density:** ca. 1.55 g/cm³ at 20 °C (68 °F) (calculated)
- **Relative density:** N/A
- **Water solubility:** N/A
- **Partition coefficient: n-octanol/water:** N/A
- **Autoignition temperature:** N/A
- **Decomposition temperature:** N/A
- **Viscosity:** N/A
- **Explosive properties:** N/A
- **Oxidizing properties:** None

Other safety information

N/A.

10. Stability and reactivity

Reactivity

Flammable organic substances in a finely distributed powder form may present a powder explosion potential when whirled up.

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions

N/A.

Conditions to avoid

No information available.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

In the event of fire, see section 5.

11. Toxicological information

Information on toxicological effects

- **Acute toxicity:** LD50 Oral - Rat - 1,784 mg/kg. Symptoms include somnolence, diarrhea, and a decrease in body temperature. Inhalation and dermal data are not available.
- **Skin corrosion/irritation:** N/A.
- **Serious eye damage/eye irritation:** N/A.
- **Respiratory or skin sensitization:** N/A.

- **Germ cell mutagenicity:** N/A.
- **Carcinogenicity:** Presumed to have carcinogenic potential for humans. IARC classifies Etoposide as Group 1 (Carcinogenic to humans). It is not identified as a known or anticipated carcinogen by NTP or OSHA.
- **Reproductive toxicity:** Suspected of damaging the unborn child.
- **Specific target organ toxicity - single/repeated exposure:** N/A.
- **Aspiration hazard:** N/A.

Additional Information

The chemical, physical, and toxicological properties have not been thoroughly investigated. Evidence based on human experience indicates potential liver irregularities.

12. Ecological information

Toxicity

- **Toxicity to algae:** Growth inhibition EC50 - *Pseudokirchneriella subcapitata* (green algae) - 250 mg/l - 96 h (ISO 8692).
- **Toxicity to bacteria:** No specific data provided for this section.

Persistence and degradability

N/A.

Bioaccumulative potential

N/A.

Mobility in soil

N/A.

Results of PBT and vPvB assessment

Assessment not available as chemical safety assessment not required/conducted.

Endocrine disrupting properties

N/A.

Other adverse effects

N/A.

13. Disposal considerations

Waste treatment methods

- **Product:** Waste must be disposed of in accordance with national and local regulations. Leave chemicals in original containers and do not mix with other waste.
- **Contaminated packaging:** Handle uncleaned containers in the same manner as the product itself.

14. Transport information

DOT (US)

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

Further information

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

WARNING: This product can expose you to chemicals including Etoposide, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to

www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA : Product contains substance(s) not listed on TSCA inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

16. OTHER INFORMATION

Revision Date: 2026/07/02

Further Information: The information provided is believed to be correct but is not exhaustive and should be used only as a guideline based on current knowledge. It does not represent a guarantee of the properties of the product. Selleck Chemicals Corporation and its Affiliates shall not be held liable for any damage resulting from handling or contact with the product.