

Simvastatin (MK-733) SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** Simvastatin (MK-733)
- **Catalog Number:** S1792
- **CAS Number:** 79902-63-9
- **IUPAC Name:** 2,2-dimethyl-butanoic acid-(1S,3R,7S,8S,8aR)-1,2,3,7,8,8a-hexahydro-3,7-dimethyl-8-[2-[(2R,4R)-tetrahydro-4-hydroxy-6-oxo-2H-pyran-2-yl]ethyl]-1-naphthalenyl ester

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

Pictogram:



Signal Word: Warning

Hazard Statements:

H361 Suspected of damaging fertility or the unborn child.

Precautionary Statements:

- **Prevention:** Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Wear protective gloves, protective clothing, eye protection, and face protection (P280).
- **Response:** IF exposed or concerned: Get medical advice/attention (P308 + P313).
- **Storage:** Store locked up (P405).

- **Disposal:** Dispose of contents/container to an approved waste disposal plant (P501).

Other Hazards:

The substance is physiologically highly active and therapeutically usable. It must be handled with the care required for hazardous materials.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Substance

CAS-No.: 79902-63-9

Components:

- **Chemical Name:** 2,2-dimethyl-butanoic acid-(1S,3R,7S,8S,8aR)-1,2,3,7,8,8a-hexahydro-3,7-dimethyl-8-[2-[(2R,4R)-tetrahydro-4-hydroxy-6-oxo-2H-pyran-2-yl]ethyl]-1-naphthalenyl ester
- **CAS No.:** 79902-63-9
- **Concentration (% w/w):** >= 90 - <= 100%

4. FIRST AID MEASURES

General Advice: Show this safety data sheet to the doctor in attendance.

Inhalation: Move to fresh air. Call a physician.

Skin Contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Consult a physician.

Eye Contact: Rinse out with plenty of water. Remove contact lenses. Call an ophthalmologist.

Ingestion: Immediately make the victim drink water (two glasses at most). Consult a physician.

Most Important Symptoms and Effects: The most important known symptoms and effects are described in the labelling (Section 2) and/or Section 11.

Protection of First-Aiders: Refer to Section 8 for personal protection.

Notes to Physician: N/A.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water, Foam, Carbon dioxide (CO₂), Dry powder.

Unsuitable Extinguishing Media: No limitations of extinguishing agents are given for this substance.

Specific Hazards: Combustible. Development of hazardous combustion gases or vapors is possible in the event of fire.

Hazardous Combustion Products: Carbon oxides.

Further Information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special Protective Equipment: Stay in the danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid inhalation of powder. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area and consult an expert. For personal protection, see Section 8.

Environmental Precautions: Do not let the product enter drains.

Methods for Containment and Cleaning Up: Cover drains. Collect, bind, and pump off spills. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of powder.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Refer to Section 2.2 for precautions.

Storage Conditions: Tightly closed and dry. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage Class: 11, Combustible powder.

Recommended Storage Temperature: 36 - 46 °F / 2 - 8 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: Contains no substances with occupational exposure limit values.

Engineering Measures: N/A.

Personal Protective Equipment:

- **Respiratory Protection:** Required when powder is generated. Recommended filter type: P3 (based on DIN EN 143, DIN 14387).
- **Hand Protection:** Nitrile rubber gloves (0.11 mm thickness) are recommended for both full and splash contact (e.g., KCL 741 Dermatril-L).
- **Eye Protection:** Safety glasses tested and approved under government standards such as NIOSH (US) or EN 166 (EU).
- **Skin and Body Protection:** Protective clothing.
- **Hygiene Measures:** Change contaminated clothing. Preventive skin protection is recommended. Wash hands after working with the substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: powder

Color: white

Odor: N/A

Odor Threshold: N/A

pH: N/A

Melting Point/Range: 261 - 270 °F / 127 - 132 °C

Boiling Point/Range: N/A

Flash Point: N/A

Evaporation Rate: N/A

Flammability: N/A

Vapor Pressure: N/A

Relative Vapor Density: N/A

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

Molecular Weight: 418.57 g/mol

Particle Size: N/A

10. STABILITY AND REACTIVITY

Reactivity: Flammable organic substances and mixtures in fine distribution may pose 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

Acute Toxicity:

- LD50 Oral - Rat - 4,438 mg/kg
- LD50 Intraperitoneal - Rat - 705 mg/kg
- **Remarks:** Observations include lacrimation and muscle contraction or spasticity.

Skin Corrosion/Irritation: N/A.

Serious Eye Damage/Irritation: N/A.

Respiratory or Skin Sensitization: N/A.

Germ Cell Mutagenicity: N/A.

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC, NTP, or OSHA.

Reproductive Toxicity: N/A (Classification in Section 2 based on supplied hazards).

STOT - Single Exposure: N/A.

STOT - Repeated Exposure: N/A.

Aspiration Hazard: N/A.

Additional Information: RTECS: EK7798000. The chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity: N/A for toxicity to fish.

Persistence and Degradability: N/A.

Bioaccumulative Potential: N/A.

Mobility in Soil: N/A.

Other Adverse Effects: N/A.

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers. Do not mix with other waste. Handle uncleaned containers like the product itself.

14. TRANSPORT INFORMATION

IATA-DGR: Not regulated as a dangerous good.

IMDG-Code: Not regulated as a dangerous good.

Transport in Bulk: Not applicable for product as supplied.

49 CFR Road: Not regulated as a dangerous good.

Poison Inhalation Hazard: No.

Special Precautions: 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 311/312 Hazards

No SARA Hazards

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

The components 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: 2026/07/20

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.