

Safety Data Sheet

#13200962 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
Lovastatin	75330-75-5	C24H36O5	10	14 Aug 2026

SECTION 1

Identification

Product name	Lovastatin
CAS number	75330-75-5
Chemical formula	C24H36O5
Molecular weight	404.54
SMILES	<chem>CC[C@H](C)C(=O)O[C@H]1C[C@H](C)C=C2C=C[C@H](C)[C@H](CC[C@@H]3C[C@@H](O)CC(=O)O3)[C@@H]12</chem>
EC / EINECS number	616-212-7
Recommended use & restrictions	For research and development. Laboratory chemicals. Manufacture of substances. Not suitable for human or veterinary purposes.
Emergency telephone	0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification



WARNING

CODE	HAZARD STATEMENT
H317	May cause an allergic skin reaction
H351	Suspected of causing cancer
H361d	Suspected of damaging fertility. Suspected of damaging the unborn child.
CODE	PRECAUTIONARY STATEMENT
P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P280	Wear protective gloves/protective clothing/eye protection/face protection
P302+P352	IF ON SKIN: Wash with soap and water
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
Other hazards (e.g. PBT / vPvB, not classified)	No known/suspected endocrine disruptors. Not considered PBT/vPvB at $\geq 0.1\%$. Toxic to terrestrial vertebrates. Fine dust may present a combustible dust / dust-explosion potential.

SECTION 3

Composition / information on ingredients

Purity / concentration	>95%
Impurities / stabilising additives	No specific impurities or stabilising additives disclosed.

SECTION 4

First-aid measures

Inhalation	Remove to fresh air. Keep at rest. If not breathing, give artificial respiration. Obtain medical attention if symptoms occur.
Skin contact	Remove contaminated clothing. Rinse skin thoroughly with water/shower for at least 15 minutes. Obtain medical advice if irritation or allergic symptoms persist.
Eye contact	Rinse immediately with plenty of water, including under eyelids, for at least 15 minutes. Remove contact lenses if easy to do. Obtain medical attention.
Ingestion	Rinse mouth. Drink water. Do not induce vomiting unless directed by medical personnel. Obtain medical attention if symptoms occur.
Symptoms / effects & medical attention	Allergic reaction may include rash, itching, swelling, breathing difficulty, tingling, dizziness/light-headedness, chest pain, muscle pain or flushing.

SECTION 5

Fire-fighting measures

Suitable extinguishing media	Water spray, foam, carbon dioxide (CO ₂), dry chemical/dry powder.
Unsuitable extinguishing media	No specific firefighting procedure given
Special hazards	Combustible solid. Thermal decomposition/fire may release irritating gases/vapours and carbon oxides. Fine dust dispersed in air may present a dust-explosion potential.
Advice for firefighters	Self-contained breathing apparatus and full protective gear in fire conditions. Prevent contaminated extinguishing water from entering surface/ground water.

SECTION 6

Accidental release measures

Personal precautions & PPE	Ensure adequate ventilation. Avoid inhalation and skin contact. Avoid dust formation. Use appropriate PPE.
Environmental precautions	Do not allow product to enter drains or the environment.
Containment & clean-up methods	Cover drains. Collect dry material carefully into suitable closed waste containers. Avoid generating dust. Clean affected area using methods that minimise airborne particulate.

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	2 to 8 °C
Precautions for safe handling	Work under local exhaust / fume hood where practical. Avoid inhalation, ingestion, eye/skin contact and dust generation. Wash hands and face after handling and change contaminated clothing.
Conditions for safe storage (incompatibilities)	Tightly closed, dry, cool, well ventilated and protected from light. Store locked up. Store under nitrogen. Keep away from strong oxidising agents and excess heat.

SECTION 8

Exposure controls / personal protection

Occupational exposure limits (OEL / WEL)	No occupational exposure limit values identified.
DNEC/PNEC data	<i>Not applicable</i>
Eye / face protection	Safety glasses Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.
Skin / hand protection	Protective clothing and chemical-resistant gloves (nitrile rubber, 0.11 mm minimum).
Respiratory protection	Dust mask (FFP2/FFP3) Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.

SECTION 9

Physical & chemical properties

Density (g/mL)	1 g/mL DERIVED FROM: LITERATURE
Flash point	<i>Not applicable</i>
Acidity	Neutral DERIVED FROM: LITERATURE
Appearance / physical state	Crystalline solid DERIVED FROM: LITERATURE
Colour	White to off-white DERIVED FROM: LITERATURE
Odour	Odourless DERIVED FROM: LITERATURE
Melting / freezing point	175-175.4 C. DERIVED FROM: LITERATURE
Boiling point	No information available DERIVED FROM: LITERATURE
Solubility (water)	Insoluble in water DERIVED FROM: LITERATURE
pH	No information available DERIVED FROM: LITERATURE
Vapour pressure	No information available DERIVED FROM: LITERATURE
Partition coefficient (log Pow)	4.26 DERIVED FROM: LITERATURE
Auto-ignition / decomposition temp	No information available DERIVED FROM: LITERATURE

SECTION 10

Stability & reactivity

Chemical stability / reactivity	Stable under standard ambient conditions; light sensitive.
Conditions to avoid	Strong oxidising agents and excess heat.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	Irritating gases/vapours and carbon oxides.

SECTION 11

Toxicological information

Acute toxicity (LD50 / LC50) Oral LD50: >5,000 mg/kg (rat); >1,000 mg/kg (mouse).

Skin corrosion / irritation *No data available*

Eye corrosion / irritation *No data available*

Respiratory / skin sensitisation May cause an allergic skin reaction.

Carcinogenicity Suspected of causing cancer.

Mutagenicity *No data available*

Reproductive toxicity Suspected of damaging the unborn child.

STOT (single / repeated exposure) *No data available*

Aspiration hazard *No data available*

Endocrine disruptors No data available

SECTION 12

Ecological information

Aquatic toxicity *No data available*

Persistence & degradability May persist.

Bioaccumulative potential High potential to bioconcentrate; log Pow 4.26.

Mobility in soil Expected low mobility.

PBT / vPvB assessment Not classified as PBT/vPvB.

SECTION 13

Disposal considerations

Waste treatment / disposal methods Dispose of contents/container to an approved waste disposal plant.

SECTION 14

Transport information

UN number	<i>Not applicable</i>
Proper shipping name	<i>Not applicable</i>
Class	<i>Not applicable</i>
Packing group	<i>Not applicable</i>
Transport category	<i>Not applicable</i>
Tunnel code	<i>Not applicable</i>
Packing instruction (ADR)	<i>Not applicable</i>
Packing instruction (IMDG)	<i>Not applicable</i>
Environmental hazards	Not classified as a dangerous good for transport.
Special precautions for user	<i>No data available</i>

SECTION 15

Regulatory information

REACH code	Y110
UFI code	<i>Not applicable</i>
ECHA notification	<i>Not applicable</i>
Chemical safety assessment carried out?	No

SECTION 16

Other information

Revision notes / other information	Previous SDS version 1 published 21/07/2022 Composite SDS prepared 13-Aug-2026;
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