

Safety Data Sheet

#58483586 · 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
Mevastatin (Compactin)	73573-88-3	C23H34O5	10	15 Sep 2026

SECTION 1

Identification

1.1 Product identifier

Product name	Mevastatin (Compactin)
CAS number	73573-88-3
EC / EINECS number	658-033-7
Chemical formula	C23H34O5
Molecular weight	390.51
SMILES	<chem>O=C1OC(CCC2C(C=CC3=CCCC(OC(=O)C(C)CC)C32)C)CC(O)C1</chem>

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

For research and development. Laboratory chemicals. Manufacture of substances.
Not suitable for human or veterinary purposes

1.3 Details of the supplier of the safety data sheet

Molekula Limited
1 Millennium Way, Newton Aycliffe
Durham, DL5 6JW, United Kingdom
info@molekula.com · +44 (0) 3302 000333

1.4 Emergency telephone number

0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification

2.1 Classification of the substance or mixture

Skin Sens. 1; H317
Carc. 2; H351
Repr. 1A or Repr. 1B; H360
Lact.; H362
STOT RE 2; H373
Aquatic Chronic 3; H412

2.2 Label elements



DANGER

CODE	HAZARD STATEMENT
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H317	May cause an allergic skin reaction
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H362	May cause harm to breast-fed children
H373	May cause damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

CODE	PRECAUTIONARY STATEMENT
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P260	Do not breathe dust/fume/gas/mist/vapours/spray
P263	Avoid contact during pregnancy/while nursing
P280	Wear protective gloves/protective clothing/eye protection/face protection
P501	Dispose of contents/container to an approved waste disposal plant

2.3 Other hazards

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII. This product does not contain any known or suspected endocrine disruptors.

SECTION 3

Composition / information on ingredients

3.1 Substances

Name	Mevastatin (Compactin)
CAS number	73573-88-3
EC number	658-033-7
Concentration / purity	~100.0%
Classification according to Regulation (EC) No 1272/2008	Skin Sens. 1; H317 Carc. 2; H351 Repr. 1A or Repr. 1B; H360 Lact.; H362 STOT RE 2; H373 Aquatic Chronic 3; H412
Hazard statements	H317, H351, H360, H362, H373, H412
Acute toxicity estimate (ATE)	No data available
Impurities / stabilising additives	Not listed

SECTION 4

First-aid measures

4.1 Description of first aid measures

Inhalation	Remove to fresh air.
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.
Eye contact	Remove contact lenses if present. Rinse eyes with water. Continue to rinse for at least 15 minutes and seek medical attention.
Ingestion	Rinse mouth. Get medical advice/attention if you feel unwell.

Get medical attention if any discomfort continues. Show this Safety Data Sheet (SDS) to medical personnel. First aiders/ medical personnel need to protect themselves.

4.2 Most important symptoms and effects, both acute and delayed

Itching. Rashes. Hives.
Treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5

Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media Do not use a heavy water stream.
No limitation of extinguishing media given.

5.2 Special hazards arising from the substance or mixture

Combustible
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Development of hazardous combustion gases/vapours is possible during a fire.

5.3 Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up

Collect spillage with shovel, broom or the like.

6.4 Reference to other sections

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

7.1 Precautions for safe handling

Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs. Wash contaminated skin thoroughly after handling. Do not eat, drink or smoke when using this product. Remove contaminated clothing and laundry thoroughly before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	Ambient
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Conditions for safe storage (incompatibilities)	Protect from moisture. Store only in the original receptacle unless other advice is given on the Certificate of Analysis. Keep containers tightly closed in a dry, cool and well-ventilated place.
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7.3 Specific end use(s)

See Section 1.2.

SECTION 8

Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limits (OEL / WEL)	No hazardous materials with established occupational exposure limits.
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DNEC/PNEC data	No data available.
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8.2 Exposure controls

Eye / face protection	Chemical splash goggles Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.
Skin / hand protection	Nitrile gloves Thickness: 0.11mm. Breakthrough time: 480mins.
Respiratory protection	Self-contained breathing apparatus 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.
Other protection	<i>No data available</i>
Environmental exposure controls	<i>No data available</i>

SECTION 9

Physical & chemical properties

9.1 Information on basic physical and chemical properties

Appearance / physical state	Solid DERIVED FROM: LITERATURE
Colour	White to off-white DERIVED FROM: LITERATURE
Odour	Not known DERIVED FROM: LITERATURE
Melting / freezing point	> 135 °C (decomposes) DERIVED FROM: LITERATURE
Boiling point	No data available. DERIVED FROM: LITERATURE
Flammability	<i>No data available</i>
Lower and upper explosion limit	<i>No data available</i>
Flash point	<i>Not applicable</i>
Auto-ignition temperature	No data available. DERIVED FROM: LITERATURE
Decomposition temperature	<i>No data available</i>
pH	No data available. DERIVED FROM: LITERATURE
Acidity	Neutral DERIVED FROM: LITERATURE
Kinematic viscosity	<i>No data available</i>
Solubility	Slightly soluble in acetone, chloroform, methylene chloride, ethyl acetate, methanol DERIVED FROM: LITERATURE

Partition coefficient n-octanol/water (log value)	No data available. DERIVED FROM: LITERATURE
Vapour pressure	No data available. DERIVED FROM: LITERATURE
Density (g/mL)	1.13 g/mL DERIVED FROM: LITERATURE
Relative vapour density	<i>No data available</i>
Particle characteristics	<i>No data available</i>

9.2 Other information

No data available

SECTION 10

Stability & reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under the prescribed storage conditions. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Violent reactions possible: Strong oxidising agents.
Excessive heat.

10.5 Incompatible materials

Strong oxidising agents

10.6 Hazardous decomposition products

See section 5

SECTION 11

Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (LD50 / LC50) *No data available*

Skin corrosion / irritation *No data available*

Eye corrosion / irritation *No data available*

Respiratory / skin sensitisation May cause skin sensitisation and allergic reactions with repeated or prolonged exposure.

Carcinogenicity

Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

Mutagenicity

No data available

Reproductive toxicity

Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child. May cause harm to breast-fed children.

STOT (single / repeated exposure)

May cause organ damage through prolonged or repeated exposure.

Aspiration hazard

Material is a solid.

11.2 Information on other hazards

Does not contain any known or suspected endocrine disruptors.

SECTION 12**Ecological information****12.1 Toxicity**

Harmful to aquatic life with long-lasting effects.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT criteria of REACH Annex XIII. This substance/mixture does not meet the vPvB criteria of REACH Annex XIII

12.6 Endocrine disrupting properties

See Section 11.2.

12.7 Other adverse effects

No data available

SECTION 13**Disposal considerations****13.1 Waste treatment methods**

Dispose of in accordance with local/national regulations

SECTION 14

Transport information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Special precautions for user Not applicable

Transport category Not applicable

Tunnel code Not applicable

Packing instruction (ADR) Not applicable

Packing instruction (IMDG) Not applicable

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15

Regulatory information

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

Substance-specific regulations (e.g. licences) No data available

REACH code Y110

ECHA notification Not applicable

15.2 Chemical safety assessment

Not applicable

SECTION 16

Other information

Revision notes / other information Initial version created 15.09.2026

This Safety Data Sheet was generated automatically from the data Molekula holds against this product, in the 16-section GHS/CLP format. Fields shown as "No data available" carry no recorded value; fields shown as "Not applicable" were assessed as not relevant to this substance. For queries, contact Molekula at info@molekula.com.