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### **1** Identification

- Product identifier
- · Trade name: Lovastatin
- · Article number: 10010338
- CAS Number: 75330-75-5
- EC number: 616-212-7
- Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- Details of the supplier of the safety data sheet
   Manufacturer/Supplier: Cayman Chemical Co.
   1180 E. Ellsworth Rd.
   Ann Arbor, MI 48108
   USA
- · Information department: Product safety department

Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

# 2 Hazard(s) identification

### · Classification of the substance or mixture



GHS08 Health hazard

Carcinogenicity 2 H351 Suspected of causing cancer.

Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.

GHS07

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

#### · Label elements

### · GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

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· Hazard pi	ctograms	(Contd. from page 1)
$\wedge$		
$\langle ! \rangle$		
GHS07	GHS08	
011007		
-	rd Warning	
Hazard st H317 Mav	cause an allergic skin reaction.	
	pected of causing cancer.	
	pected of damaging fertility or the unborn child.	
	nary statements	
P201 P202	Obtain special instructions before use. Do not handle until all safety precautions have been read and unc	lerstood
P261	Avoid breathing dust/fume/gas/mist/vapors/spray	
P272	Contaminated work clothing must not be allowed out of the workp	lace.
P280	Wear protective gloves/protective clothing/eye protection/face pro	
	2 If on skin: Wash with plenty of water.	
P308+P31 P321	3 IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label).	
	3 If skin irritation or rash occurs: Get medical advice/attention.	
P363	Wash contaminated clothing before reuse.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regio	nal/national/international
laccifica	regulations. tion system:	
	ngs (scale 0 - 4)	
	Health = 0	
	Fire = 0	
	Reactivity = 0	
HMIS-rati	ngs (scale 0 - 4)	
HEALTH	Health = 0	
FIRE	• Fire = 0	
REACTIVITY	Reactivity = 0	
Other haz	ards	
	f PBT and vPvB assessment	
PBT: Not	applicable.	
vPvB: No	t applicable.	
Compos	sition/information on ingredients	
compoe		
	characterization: Substances	
	Description	
	5 Lovastatin	

- · Identification number(s)
- EC number: 616-212-7

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### **4 First-aid measures**

- · Description of first aid measures
- · After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed

May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.

• **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### **5 Fire-fighting measures**

- · Extinguishing media
- Suitable extinguishing agents:

Use fire fighting measures that suit the environment. A solid water stream may be inefficient.

- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

### **6 Accidental release measures**

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Dispose contaminated material as waste according to item 13.
- Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.
   See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- · PAC-1: Substance is not listed.
- · PAC-2: Substance is not listed.
- · PAC-3: Substance is not listed.

# 7 Handling and storage

· Handling:

### Precautions for safe handling

No special precautions are necessary if used correctly. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure. Keep away from sources of ignition.

Take precautionary measures against static discharge.re.

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- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
- Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Not required.

Information on basic physica General Information	al and chemical properties	
Appearance:		
Form:	Solid	
Color:	Not determined.	
Odor:	Characteristic	
Structural Formula	C24H36O5	
Molecular Weight	404.5 g/mol	

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· Odor threshold:	Not determined.
· pH-value:	Not applicable.
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	Undetermined. Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Product is not flammable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapor pressure:	Not applicable.
<ul> <li>Density:</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	Not determined. Not determined. Not applicable. Not applicable.
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Not determined.
· Partition coefficient (n-octanol/wa	ter): Not determined.
<sup>·</sup> Viscosity: Dynamic: Kinematic: SOLUBILITY	Not applicable. Not applicable. DMF: 15 mg/ml; DMSO: 20 mg/ml; DMSO:PBS (pH 7.2) (1 1): 0.5 mg/ml; Ethanol: 20 mg/ml
· Other information	No further relevant information available.

# **10 Stability and reactivity**

· Reactivity No further relevant information available.

- · Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · **Incompatible materials:** strong oxidizing agents
- · Hazardous decomposition products: carbon dioxide; carbon monoxide

### **11 Toxicological information**

· RTECS Number EK7907000

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Informati	ion on toxicologi	ical effects	(Contd. from page
Acute to			
	•	relevant for classification:	
Oral TDL		240 ml/kg/60W intermittent (man)	
LD5		6,100 mg/kg (mouse)	
-	-	225 mg/kg/3W intermittent (mouse)	
	•		
	rritant effect:		
on the sk	kin: No irritant effe	ect.	
on the ey	e: No irritating eff	fect.	
		n possible through skin contact.	
	al toxicological i		
/	ai toxicologicai i		
· Carcinog	jenic categories		
	ernational Agene	cv for Research on Cancer) Substance is not listed.	
· IARC (Int		cy for Research on Cancer) Substance is not listed.	
<ul> <li>IARC (Int · NTP (Nat</li> </ul>	ional Toxicology	/ Program) Substance is not listed.	
<ul> <li>IARC (Int · NTP (Nat</li> </ul>	ional Toxicology		
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· IARC (Int · NTP (Nat · OSHA-Ca · OSHA-Ca · Coxicity · Aquatic t · Persister · Behavior · Bioaccur · Mobility · Additiona · General n Water ha Do not al	ional Toxicology a (Occupational S ical informatic coxicity: No furthen nce and degradal in environmenta nulative potentia in soil No further al ecological info notes: zard class 1 (Self-	<ul> <li>Program) Substance is not listed.</li> <li>Safety &amp; Health Administration) Substance is not listed.</li> <li>Son</li> <li>Program information available.</li> <li>bility No further relevant information available.</li> <li>al systems:</li> <li>al No further relevant information available.</li> <li>relevant information available.</li> <li>program information available.</li> </ul>	course or sewa
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- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

# **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

# 14 Transport information · UN-Number · DOT, IMDG, IATA (Contd. on page 7) US

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<ul> <li>UN proper shipping name</li> <li>DOT, IMDG, IATA</li> </ul>	not regulated	
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA · Class	not regulated	
· Packing group · DOT, IMDG, IATA	not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Anne MARPOL73/78 and the IBC Code</li> </ul>	<b>x II of</b> Not applicable.	
· UN "Model Regulation":	not regulated	

## 15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

- Section 355 (extremely hazardous substances): Substance is not listed.
- · Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.

· Proposition 65

- Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is listed.
- · Carcinogenic categories
- EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

· Department issuing SDS: Environment protection department.

· Contact: -

• Date of preparation / last revision 12/21/2022

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 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Sensitization - Skin 1: Skin sensitisation – Category 1 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2

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