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Revisio	on date 03/21/2018 Version 1
1 Identification	
Product identifier	
Product name: <u>Bestatin</u>	
Stock number: J61106 CAS Number:	
58970-76-6 EC number:	
261-529-2	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc.	
30 Bond Street Ward Hill, MA 01835-8099	
Wald This, MA 053-5059 Tel: 800-343-0660 Fax: 800-322-4757	
Email: tech@alfa.com	
www.alfa.com Information Department: Health, Safety and Environmental Department	
Emergency telephone number: During normal business hours, call Carechem 24 at (866) 928-0 During normal business hours, call Carechem 24 at (866) 928-0	0789.
2 Hazard(s) identification	i
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
The substance is not classified as hazardous according to 29 CFR 1910 (OSHA GHS). Hazards not otherwise classified No information known.	
Label elements	
GHS label elements Not applicable Hazard pictograms Not applicable	
Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable	
WHMIS classification Not controlled Classification system	
Classification System HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH 1 Llooth (courts officiate) = 1	
FIRE I Flammability = 1 REACTIVITY Physical Hazard = 1	
Other hazards	
Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances	
CAS# Description: 58970-76-6 Bestatin	
Concentration: <100% Identification number(s): EC number: 261-529-2	
EC number: 261-529-2´	
4 First-aid measures	
Description of first aid measures After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
Seek immediate medical advice. After skin contact Immediate with water and each and rines the revealed.	
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
Information for doctor Most important symptoms and effects, both acute and delayed 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 Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture	
If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide	
Nitrogen oxides (NOx) Advice for firefighters	
Protective equipment: Wear self-contained respirator.	
Wear fully protective impervious suit.	
6 Accidental release measures	
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.	
Ensure adequate ventilation	(Contd. on page 2)
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Floudet maine. Destatim		
Environmental precautions: Do not allo Methods and material for containment Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 13 for disposal information. Protective Action Criteria for Chemica PAC-1: Substance is not listed. PAC-3: Substance is not listed.	special measures required. Indling Il protection equipment.	(Contd. of page 1)
Conditions for safe storage, including Storage Requirements to be met by storeroom	s and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. Iditions: d containers.	
Control parameters Components with limit values that req	f technical systems: lesigned for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Protection of hands: Impervious gloves	Indling chemicals should be followed. nd feed. hing immediately. d of work. orking environment. ntrations are present. e in case of insufficient ventilation.	etermine if air-
9 Physical and chemical properties		
Information on basic physical and che General Information Appearance:		
[°] Form: Odor: Odor threshold:	Powder Not determined	
pH-value:	Not determined. Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	233-236 °C (451-457 °F) Not determined Not determined Not determined. Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water:	Not determined. Not determined Not applicable. Not applicable. Not determined. Not applicable. Not applicable. Not applicable.	
Partition coefficient (n-octanol/water): Viscosity: dynamic:	Not determined. Not applicable.	
kinematic:	Not applicable.	(Contd. on page 3)
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		(Contra of page 2)
Other information No further relevant information as	vailable.	(Contd. of page 2)
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	not occur if used and stored according to specifications.	,
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Subst Carcinogenicity: No classification data on carcinogenic properties of this Reproductive toxicity: The Registry of Toxic Effects of Chemical Substar Specific target organ system toxicity - repeated exposure: No effects H Specific target organ system toxicity - single exposure: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the a	material is available from the EPA, IARC, NTP, OSHA or ACGIH. nces (RTECS) contains reproductive data for this substance. known. own.	· · · · · · · · · · · · · · · · · · ·
12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper gov Do not allow undiluted product or large quantities to reach ground water, w Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.	vernmental permits. vater course or sewage system.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure pr Uncleaned packagings: Recommendation: Disposal must be made according to official regulation.		
14 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name		
DOŤ, ÁDR, AĎŇ, IŇDG, IATA Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class	Not applicable Not applicable	
Packing group DOT, ADR, IMDG, IATA	Not applicable	
Environmental hazards:		
Marine pollutant (IMDG): Special precautions for user	No Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC		
Transport/Additional information:		
DOT Marine Pollutant (DOT):	Νο	
UN "Model Regulation":	No Not applicable	
15 Regulatory information Safety, health and environmental regulations/legislation specific for to GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable		
Hazard statements Not applicable		(Contd. on page 4)

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Safety Data Sheet acc. to OSHA HCS

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National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Developmental toxicity, Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

market and use must be observed. Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user."
Department issuing SDS: Global Marketing Department
Date of preparation/Revision: Print date, revision date and version number are in the header of each page.
Abbreviations and acromyse:
DR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMOG: International Maritime Code for Dangerous Goods
DOT: US Department of Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPVB: very Persistent and very Bioaccumulative
ACGIH: American Concernation (USA)
WTP: National Toxicology Program (USA)
IAT: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)

USA