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	Version 1
1 Identification	
Product identifier Product name: Cilastatin sodium salt	
Stock number: H37383	
CAS Number: 81129-83-1	
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.	
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tol: 900-242-0660	
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 (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-	0780
	0709.
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CER 1010 (OSHA HCS)	
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	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1	
REACTIVITY 1 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:	
81129-83-1 Cilastatin sodium salt Concentration: ≤100%	
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	
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 dióxide Sulfur oxides (SOx)	
Sodium oxide`	
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	
Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Pick up mechanically.	(Contd. on page 2)
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Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on person See Section 13 for disposal information. Protective Action Criteria for Chemica PAC-1: Substance is not listed. PAC-3: Substance is not listed.	andling al protection equipment.	(Contd. of page 1)				
7 Handling and storage Handling						
Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed o	containers. explosions and fires: No information known.					
Conditions for safe storage, including Storage						
Requirements to be met by storeroon Information about storage in one com Further information about storage con Keep container tightly sealed. Store in cool, dry conditions in well seale Specific end use(s) No further relevant	ed containers.					
8 Exposure controls/personal prote						
Additional information about design of						
Control parameters Components with limit values that red The product does not contain any releva Additional information: No data	Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.					
Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Use suitable respirator protective device in case of insufficient ventilation. Recommended filter device for short term use: Use a respirator with type N95 (USA) or P2 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air- purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eve protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.						
9 Physical and chemical properties Information on basic physical and che						
General Information Appearance:	enncal properties					
Form: Odor:	Powder Not determined					
Odor threshold: pH-value:	Not determined. Not applicable.					
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined					
Flash point: Flammability (solid, gaseous)	Not determined Not determined.					
Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined.					
Danger of explosion: Explosion limits:	Not determined.					
Lower: Upper:	Not determined Not determined					
Vapor pressure: Density:	Not applicable. Not determined					
Relative density Vapor density	Not determined.					
Evaporation rate	Not applicable. Not applicable.					
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water).	Not determined					
Viscosity: dynamic:	Not applicable.					
kinematic:	Not applicable.	(Contd. on page 2)				
		(Contd. on page 3) USA				

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Other information	No further relevant information	available.	
Thermal decomposition Possibility of hazardous	known. under recommended storage conditions. / conditions to be avoided: Decomposition w reactions Reacts with strong oxidizing agents urther relevant information available. Oxidizing agents n products:	ill not occur if used and stored according to specifications.	
LD/LC50 values that are Skin irritation or corrosic Eye irritation or corrosic Sensitization: No sensitiz Germ cell mutagenicity: Carcinogenicity: No clas Reproductive toxicity: N Specific target organ sy	<i>ical effects</i> try of Toxic Effects of Chemical Substances (F <i>relevant for classification:</i> No data <i>m:</i> May cause irritation <i>m:</i> May cause irritation ing effects known. No effects known. sification data on carcinogenic properties of thi		
Aspiration hazard: No ef Subacute to chronic tox Additional toxicological	city: No effects known.	e acute and chronic toxicity of this substance is not fully known.	
Persistence and degrada Bioaccumulative potenti Mobility in soil No furthe Additional ecological inf General notes: Do not allow undiluted pro Avoid transfer into the env Results of PBT and vPvl PBT: Not applicable. vPvB: Not applicable.	er relevant information available. bility No further relevant information available al No further relevant information available. relevant information available. ormation: duct or large quantities to reach ground water, ironment.		
Uncleaned packagings:			
14 Transport information	,		
UN-Number DOT. ADN. IMDG. IATA		Not applicable	
UN proper shipping nam	e		
DOŤ, ADR, AĎŇ, IMĎG, I Transport hazard class(DOT, ADR, ADN, IMDG, I Class	es)	Not applicable	
Packing group DOT, ADR, IMDG, IATA			
Environmental hazards:		Not applicable Not applicable.	
Special precautions for	Iser	Not applicable.	
	ing to Annex II of MARPOL73/78 and the IB		
Transport/Additional inf	ormation:		
DOT Marine Pollutant (DOT):		No	
UN "Model Regulation":		Not applicable	
15 Regulatory informatic Safety, health and enviru GHS label elements Not Hazard pictograms Not a Signal word Not applicab Hazard statements Not a	n mental regulations/legislation specific for applicable pplicable e	the substance or mixture	(Contd. on page 4)
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USA

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.

The Conditions of restrictions according to Article of and Annex XVI of the Regulation (EQ) is 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 accomyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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 DE0: US percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative ACGIH: American Abstration (USA) MTP: National Toxicotogy Program (USA) MTP: National Toxicotogy Program (USA) MTP: National Toxicotogy Program (USA) MTP: Marional Toxicotogy Program (USA)