

*

Page 1/8

Safety Data Sheet acc. to OSHA HCS

Printing date 05/20/2021

Revision date 05/20/2021

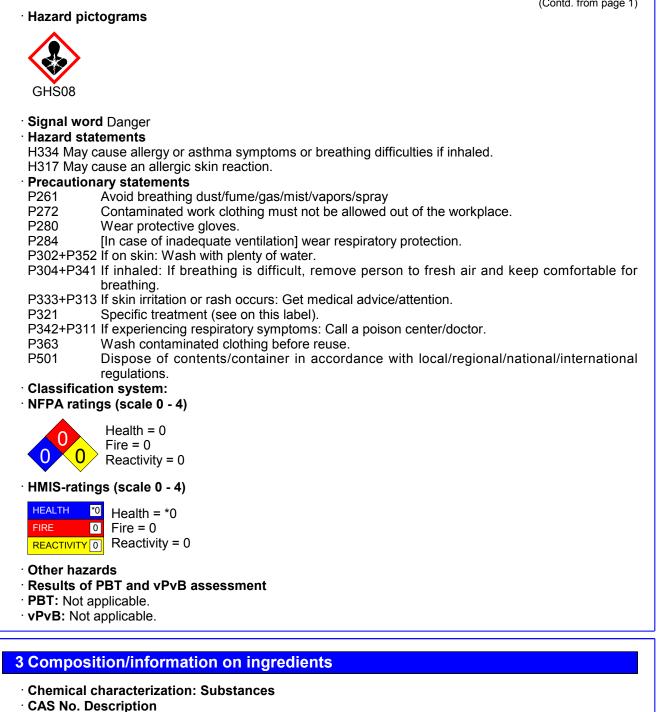
Identificati	on
Product iden	tifier
	Ampicillin (sodium salt)
	6-[[(2R)-2-amino-2-phenylacetyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2 rboxylic acid, monosodium salt
For research This product	
Details of the Manufacture Cayman Che 1180 E. Ellsw Ann Arbor, M USA	nical Co. orth Rd.
Emergency t During norma US/CANADA	department: Product safety department elephone number: I opening times: +1 (734) 971-3335 800-424-9300 ANADA: 703-741-5970
Hazard(s)	dentification
Classificatio	n of the substance or mixture
GH	S08 Health hazard
Resp. Sens.	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
GH	507
Skin Sens. 1	H317 May cause an allergic skin reaction.
Label eleme	
GHS label electric The substance	e is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on pag

Printing date 05/20/2021

Revision date 05/20/2021

Trade name: Ampicillin (sodium salt)

(Contd. from page 1)



- 69-52-3 Ampicillin (sodium salt)
- · Identification number(s)
- · EC number: 200-708-1

(Contd. on page 3)

Printing date 05/20/2021

Revision date 05/20/2021

Trade name: Ampicillin (sodium salt)

(Contd. from page 2)

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** Ensure good ventilation/exhaustion at the workplace.
- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities Keep container tightly closed.

Store in accordance with information listed on the product insert.

(Contd. on page 4)

Printing date 05/20/2021

Revision date 05/20/2021

Trade name: Ampicillin (sodium salt)

- · Storage:
- · 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:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• 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.

9 Physical and chemical properties • Information on basic physical and chemical properties • General Information • Appearance: Form: Crystalline Color: Not determined. • Odor: Characteristic • Structural Formula C16H18N3O4S • Na • Molecular Weight 371.4 g/mol

(Contd. from page 3)

Printing date 05/20/2021

Revision date 05/20/2021

Trade name: Ampicillin (sodium salt)

	(Contd. from page 4)
· Odor threshold:	Not determined.
· pH-value:	Not applicable.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	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.
 Density: Relative density Vapor density Evaporation rate 	Not determined. Not determined. Not applicable. Not applicable.
 Solubility in / Miscibility with Water: 	Not determined.
· Partition coefficient (n-octanol/water)	: Not determined.
 Viscosity: Dynamic: Kinematic: SOLUBILITY 	Not applicable. Not applicable. ~10 mg/ml in PBS (pH 7.2); ~2 mg/ml in EtOH; ~16 mg/ml in DMSO; ~20 mg/ml in DMF
· 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: oxidizing agents
- · Hazardous decomposition products: carbon oxides, nitrogen oxides, sodium oxides, sulfur oxides

11 Toxicological information

· RTECS Number XH8400000

(Contd. on page 6)

US

Printing date 05/20/2021

Revision date 05/20/2021

Trade name: Ampicillin (sodium salt)

	ological effects (Contd. from page
Acute toxicity:	
LD/LC50 values that	are relevant for classification:
Oral LD50	>5,314 mg/kg (mouse)
	5,314 mg/kg (rat)
TDLO	100 mg/kg//5D (human)
Intraperitoneal L	D50 5,700 mg/kg (mouse)
	7,400 mg/kg (rat)
Subcutaneous L	D50 >5,314 mg/kg (mouse)
	>5,314 mg/kg (rat)
Primary irritant effect	
on the skin: No irritar	
on the eye: No irritati Sensitization:	ng effect.
Sensitization possible	through inhalation
Sensitization possible	
Additional toxicolog	
OSHA-Ca (Occupatio	onal Safety & Health Administration) Substance is not listed.
OSHA-Ca (Occupation Ecological inform	
Ecological inform	
Ecological inform	nation
Ecological inform Toxicity Aquatic toxicity: No	
Ecological inform Toxicity Aquatic toxicity: No Persistence and deg Behavior in environ	nation further relevant information available. rradability No further relevant information available. mental systems:
Ecological inform Toxicity Aquatic toxicity: No Persistence and deg Behavior in environ Bioaccumulative po	nation further relevant information available. gradability No further relevant information available. mental systems: tential No further relevant information available.
Ecological inform Toxicity Aquatic toxicity: No Persistence and deg Behavior in environ Bioaccumulative por Mobility in soil No fu	nation further relevant information available. gradability No further relevant information available. mental systems: tential No further relevant information available. rther relevant information available.
Ecological inform Toxicity Aquatic toxicity: No Persistence and deg Behavior in environ Bioaccumulative por Mobility in soil No fu Additional ecologica	nation further relevant information available. gradability No further relevant information available. mental systems: tential No further relevant information available. rther relevant information available.
Ecological inform Toxicity Aquatic toxicity: No Persistence and deg Behavior in environ Bioaccumulative por Mobility in soil No fu Additional ecologica General notes:	nation further relevant information available. pradability No further relevant information available. mental systems: tential No further relevant information available. rther relevant information available. Il information:
Ecological inform Toxicity Aquatic toxicity: No Persistence and deg Behavior in environ Bioaccumulative pot Mobility in soil No fu Additional ecologica General notes: Water hazard class 1	nation further relevant information available. gradability No further relevant information available. mental systems: tential No further relevant information available. rther relevant information available.
Ecological inform Toxicity Aquatic toxicity: No Persistence and deg Behavior in environ Bioaccumulative por Mobility in soil No fu Additional ecologica General notes: Water hazard class 1 Do not allow undiluted system.	nation further relevant information available. pradability No further relevant information available. mental systems: tential No further relevant information available. rther relevant information available. al information: (Self-assessment): slightly hazardous for water d product or large quantities of it to reach ground water, water course or sewage
Ecological inform Toxicity Aquatic toxicity: No Persistence and deg Behavior in environ Bioaccumulative por Mobility in soil No fu Additional ecologica General notes: Water hazard class 1 Do not allow undiluted system. Results of PBT and	nation further relevant information available. pradability No further relevant information available. mental systems: tential No further relevant information available. rther relevant information available. al information: (Self-assessment): slightly hazardous for water d product or large quantities of it to reach ground water, water course or sewage
Ecological inform Toxicity Aquatic toxicity: No Persistence and deg Behavior in environ Bioaccumulative por Mobility in soil No fu Additional ecologica General notes: Water hazard class 1 Do not allow undiluted system. Results of PBT and PBT: Not applicable.	nation further relevant information available. pradability No further relevant information available. mental systems: tential No further relevant information available. rther relevant information available. al information: (Self-assessment): slightly hazardous for water d product or large quantities of it to reach ground water, water course or sewar vPvB assessment
Ecological inform Toxicity Aquatic toxicity: No Persistence and deg Behavior in environ Bioaccumulative por Mobility in soil No fu Additional ecologica General notes: Water hazard class 1 Do not allow undiluted system. Results of PBT and P PBT: Not applicable. vPvB: Not applicable.	nation further relevant information available. pradability No further relevant information available. mental systems: tential No further relevant information available. rther relevant information available. I information: (Self-assessment): slightly hazardous for water d product or large quantities of it to reach ground water, water course or sewar vPvB assessment
Ecological inform Toxicity Aquatic toxicity: No Persistence and deg Behavior in environ Bioaccumulative por Mobility in soil No fu Additional ecologica General notes: Water hazard class 1 Do not allow undiluted system. Results of PBT and P PBT: Not applicable. vPvB: Not applicable.	nation further relevant information available. pradability No further relevant information available. mental systems: tential No further relevant information available. rther relevant information available. al information: (Self-assessment): slightly hazardous for water d product or large quantities of it to reach ground water, water course or sewar vPvB assessment
Ecological inform Toxicity Aquatic toxicity: No Persistence and deg Behavior in environn Bioaccumulative por Mobility in soil No fu Additional ecologica General notes: Water hazard class 1 Do not allow undiluted system. Results of PBT and w PBT: Not applicable. vPvB: Not applicable. Other adverse effect	nation further relevant information available. pradability No further relevant information available. mental systems: tential No further relevant information available. rther relevant information available. I information: (Self-assessment): slightly hazardous for water d product or large quantities of it to reach ground water, water course or seway vPvB assessment is No further relevant information available.
Ecological inform Toxicity Aquatic toxicity: No Persistence and deg Behavior in environ Bioaccumulative pot Mobility in soil No fu Additional ecologica General notes: Water hazard class 1 Do not allow undiluted system. Results of PBT and P PBT: Not applicable. vPvB: Not applicable.	nation further relevant information available. pradability No further relevant information available. mental systems: tential No further relevant information available. rther relevant information available. I information: (Self-assessment): slightly hazardous for water d product or large quantities of it to reach ground water, water course or seway vPvB assessment is No further relevant information available.
Ecological inform Toxicity Aquatic toxicity: No Persistence and deg Behavior in environn Bioaccumulative por Mobility in soil No fu Additional ecologica General notes: Water hazard class 1 Do not allow undiluted system. Results of PBT and w PBT: Not applicable. vPvB: Not applicable. Other adverse effect	nation further relevant information available. gradability No further relevant information available. mental systems: tential No further relevant information available. rther relevant information available. al information: (Self-assessment): slightly hazardous for water d product or large quantities of it to reach ground water, water course or seware vPvB assessment is No further relevant information available.

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

(Contd. on page 7)

Printing date 05/20/2021

Revision date 05/20/2021

(Contd. from page 6)

Trade name: Ampicillin (sodium salt)

· Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations.

· UN-Number		
· DOT, IMDG, IATA	not regulated	
· UN proper shipping name		
· DOT, IMDG, IATA	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.	
· Transport in bulk according to Annex	c II of	
MARPOL73/78 and the IBC Code	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 not 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

(Contd. on page 8)

US

Printing date 05/20/2021

Revision date 05/20/2021

Trade name: Ampicillin (sodium salt)

(Contd. from page these data. It shall be the user's responsibility to develop proper methods of handling and person protection based on the actual conditions of use. While this SDS is based on technical data judged be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy the information contained herein.	naÍ to
 Department issuing SDS: Environment protection department. Contact: - Date of preparation / last revision 05/20/2021 / - 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 REL: Recommended Exposure Limit Resp. Sens. 1: Respiratory sensitisation – Category 1 	
Skin Sens. 1: Skin sensitisation – Category 1 · * Data compared to the previous version altered.	- US