BIO FAD

Safety Data Sheet acc. to OSHA HCS

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Reviewed on 05/15/2018

Printing date 05/15/2018

1 Identification

Product identifier

Trade name: Ampicillin, lyophilized

Catalog or product number: 1660407, 1660407EDU CAS Number:

EC number:

Application of the substance / the mixture Laboratory chemicals

Details of the supplier of the safety data sheet

Manufacturer/Supplier: Blo-Rad Laboratories, Life Science Group 2000 Alfred Nobel Drive

Hercules, California 94547

Information department: lsg_techserv_us@bio-rad.com Emergency relephone number:

Emergency telephone number: 1(800)424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or

2 Hazard(s) identification

Classification of the substance or mixture Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

Label elements

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

Signal word Warning

Hazard-determining components of labeling: sodium [25-[2alpha,5alpha,68(S*)]]-6-(aminophenylacetamido)-3,3-dimethyl-7-oxo-4-thla-1-azabioyolo[3.2.0]heptane-2-

H315 Causes skin Irritation. H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray
P261

Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves / eye protection / face protection.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Take off contaminated clothing

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Store locked up.

Emergency overview: Dispose of contents/container in accordance with local/regional/national/international regulations.

Routes of exposure: Inhalation

Other hazards

Results of PBT and vPvB assessment PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

(510)741-1000

Chemical characterization: Substances
CAS No. Description:
69-52-3 sodium [2S-[2alpha,5alpha,68(S*)]]-6-(aminophenylacetamido)-3,3-dimethyl-7-oxo-4-thia-1-azabloyclo[3,2,0]
heptane-2-carboylate
ridentification number(s):
- Identification number(s):

Additional information: For the wording of the listed risk phrases refer to section 15.

4 First-aid measures

Description of first aid measures

General information immediately remove any clothing soiled by the product.

After inhalation Supply fresh air, consult doctor in case of complaints.

After skin contact

Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water.

After eye contact Hinse opened eye for several minutes under running water. It symptoms persist, consult a doctor, After swalfowing Rinse mouth with water. Seek medical attention and appropriate follow-up.

information for doctor

Most important symptoms and effects, both acute and delayed Breathing difficulty 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.
 Special hazards arising from the substance or mixture No further relevant information available.
 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective clothing.
Environmental precautions: No special measures required.
Methods and material for containment and cleaning up:
Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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	Substance is not listed.	_
A CALL AND	· PAC-3:	_
	Substance is not listed.	_
462	PAC-2:	-
	Substance is not listed.	
ARRENIAL LAST AND ARRENIAL THE REPORT OF THE PERFORMANCE AND ARRENIAL ARRENIA	PAC-1:	_
Chemicals	· Protective Action Criteria for Chemicals	
rmation.	See Section 13 for disposal information.	
See Section 8 for information on personal projection equipment	See Section 8 for information o	
n safe handling	See Section 7 for information on safe handling	
(Contd. of page 2)	Reference to other sections	

7 Handling and storage

Handling
Precautions for safe handling

No special measures required." 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

Storage
 Storage
 Requirements to be met by storerooms and receptacles: According to product specification information about storage in one common storage facility: Not required.
 Further information about storage conditions: Keep receptacle tightly sealed.
 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 and hygienic measures
General protective and hygienic measures
Keep away from foodstuffs, beverages and feed
Immediately remove all solited and contaminated clothing
Wash lands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

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.

 Indeterial of gloves Synthetic gloves

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· Other information

No further relevant information available.

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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:
- Safety glasses
- Safety glasses
- Tightly sealed goggles.

9 Physical and chemical properties	diac
Information on basic physical and chemical properties	hemical properties
Appearance:	
Color:	Crystalline
· Odor:	Odorless
· Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range:	240 °C
. Flach noint	AND THE PROPERTY OF THE PROPER
Flammability (solid, gaseous)	Product is not fishmable
· Decomposition temperature:	Not determined.
· Auto igniting:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard
Explosion limits:	
Upper:	Not determined. Not determined.
Vapor pressure:	Not applicable.
Density:	Not determined
· Vapor density	Not papilicable
· Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Soluble
Viscosity:	; NOt determined.
dynamic:	Not applicable.
kinematic:	Not applicable.
Solids content:	100.0 %

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10 Stability and reactivity

- Reactivity No turther relevant information available.

- 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: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- Information on toxicological effects Acute toxicity:
- Primary irritant effect: on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritant effect.
- Sensitization: No sensitizing effects known. Additional toxicological information;

Carcinogenic categories

- IARC (International Agency for Research on Cancer)
- NTP (National Toxicology Program) Substance is not listed.
- Substance is not listed.
- OSHA-Ca (Occupational Safety & Health Administration)

Target organs: Eye.

Substance is not listed.

12 Ecological information

- Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Behavior in environmental systems:

 Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information.

 General notes: Generally not hazardous for water.

- Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

- Other adverse effects No further relevant information available.

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13 Disposal considerations

- Waste treatment methods
- Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of waste in accordance to applicable national, regional, or local regulations.
- Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information UN "Model Regulation": Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Special precautions for user Environmental hazards: Packing group DOT, ADR, IMDG, IATA DOT, ADR, ADN, IMDG, IATA Transport hazard class(es) UN proper shipping name DOT, ADR, ADN, MIDG, IATA Marine pollutant: UN-Number DOT, ADR, ADN, IMDG, IATA Void Not applicable Not applicable. 8 Void Void Void Void

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture SARA (Superfund Amendents and Reauthorization Act of 1986 USA)
- Section 302/304 (40CFR355.30 / 40CFR355.40):

	Substance is not listed.
	TSCA (Toxic Substances Control Act):
TSCA (Toxic Substances Control Act):	Substance is not listed.
Substance is not listed. - TSCA (Toxic Substances Control Act):	· Section 313 (40CFR372.65);
Section 313 (40CFH372,63); Substance is not listed TSCA (Toxic Substances Control Act);	Substance not listed.

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MOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed. MAK (German Maximum Workplace Concentration) Substance is not listed TLV (Threshold Limit Value established by ACGIH) EPA (Environmental Protection Agency) Carcinogenic categories Substance is not listed. Substance is not listed. Developmental Toxicity Substance is not listed. Chemicals known to cause cancer; (Contd. of page 6)

National regulations

Substance is not listed.

- Water hazerd class: Generally not hazardous for water.
 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department Issuing SDS; Environmental Health and Safety.

 Contact:

 Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

- Abbreviations and acronyms:

ADR: Located europens aur le transport des marchanolises dangereuses par Route (European Agreement concerning the International Arthuranticum Martine Code for Dangerous Goods

MDG: International Martine Code for Dangerous Goods

DOT: US Department of Transport Association

ATA: International Martine Code for Dangerous Goods

EMECS: European Inventory of Eusting Commercial Charical Substances

GAS: Charical Austracts Service (Mayon of the American Charrical Society)

PB1: Persistent, Bioaccumulative and Toxic

VPB3: Persistent, Bioaccumulative

PB1: Persistent, Bioaccumulative

PB1: Persistent, Bioaccumulative

NGSH: National Institute for Occupational Safety

VPB3: Persistent, Bioaccumulative

PB1: Persistent, Bioaccumulative

PB1: Persistent, Bioaccumulative

PB1: Persistent, Bioaccumulative

NGSH: National Institute for Occupational Safety

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