

Date Prepared: 03/25/2014 Reviewed On: 03/25/2014

#### 1 Identification

· Product Identifier

· Product Name: Ampicillin AM-10

· Catalog Number: 231264

· Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

· Application of the substance / the mixture In-vitro Diagnostics

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

BD Diagnostic Systems

7 Loveton Circle Sparks, MD 21152

Telephone: (410) 771 - 0100 or (800) 638 - 8663 Email Address: Technical\_Services@bd.com · Information Department: Technical Service

· Emergency telephone number:

In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic

Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

### 2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



Skin Sens. 1 H317 May cause an allergic skin reaction.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC

This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29 CFR 1910.1200, the Canada's Workplace Hazardous Materials Information System (WHMIS) and the European Directive 67/548/EEC and 1999/45/EC.

Classification system:

The classification was made according to the latest editions of international substances lists. and expanded upon from company and literature data.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)

(Contd. of page 1)

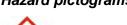


### Safety Data Sheet acc. to OSHA HCS

Reviewed On: 03/25/2014 Date Prepared: 03/25/2014

Product Name: Ampicillin AM-10

· Hazard pictograms





- · Signal word Danger
- · Hazard-determining components of labeling:

**Ampicillin** 

· Hazard statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

In case of inadequate ventilation wear respiratory protection. P284

Avoid breathing dust/fume/gas/mist/vapours/spray. P261

P280 Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. P272

P321 Specific treatment (see on this label).

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/

physician.

P363 Wash contaminated clothing before reuse.

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Dispose of contents/container in accordance with local/regional/national/ P501

international regulations.

· NFPA ratings (scale 0-4)



Health = 0Flammability = 0Reactivity = 0

· HMIS ratings (scale 0-4)



Health = 0Flammability = 0REACTIVITY  $\bigcirc$  Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.



Date Prepared: 03/25/2014 Reviewed On: 03/25/2014

Product Name: Ampicillin AM-10

(Contd. of page 2)

### 3 Composition/information on ingredients

· Chemical characterization: Mixture

· Description: Mixture consisting of the following components.

· Dangerous Components: Void

· Additional information Risk phrases refer to section 15.

#### 4 First-aid measures

- · Description of first aid measures
- · General information No special measures required.
- · After inhalation Seek medical treatment in case of complaints.
- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing If symptoms persist consult doctor.
- · Information for doctor Show this product label or this MSDS.
- 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

CO2, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · 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: Wipe up with damp sponge or mop.
- · Methods and material for containment and cleaning up: No special measures required.
- · Reference to other sections No dangerous substances are released.



Date Prepared: 03/25/2014 Reviewed On: 03/25/2014

Product Name: Ampicillin AM-10

(Contd. of page 3)

### 7 Handling and storage

- · Handling
- · Precautions for safe handling Keep receptacles tightly sealed.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility:
   Store away from oxidizing agents.
- Further information about storage conditions: Store in cool, dry conditions in well sealed containers.
- · **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 Section 7.
- · 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.
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal Protective Equipment
- General protective and hygienic measures
  The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Not required.
- · Protection of hands:





Chemical resistant gloves (i.e. nitrile, or equivalent).

- · Eye protection: Safety glasses
- · Body protection: Protective work clothing (lab coat).

US



Date Prepared: 03/25/2014 Reviewed On: 03/25/2014

Product Name: Ampicillin AM-10

(Contd. of page 4)

### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Solid.

Color: According to product specification

· Odor: Characteristic

Change in condition
 Melting point/Melting range:
 Boiling point/Boiling range:
 Undetermined
 Not determined
 Not determined

· Flash point: Not applicable

· Flammability (solid, gaseous) Product is not flammable.

• Danger of explosion: Product does not present an explosion hazard.

· **Density:** Not determined

· Solubility in / Miscibility with

Water: Soluble

· Solvent content:

Solids content: 100.0 %

· Other information No further relevant information available.

### 10 Stability and reactivity

- · Reactivity
- · 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: 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: No irritating effect.
- · on the eye: No irritating effect.
- · Sensitization: Sensitizing effect by skin contact is possible with prolonged exposure.

(Contd. on page 6)



Date Prepared: 03/25/2014 Reviewed On: 03/25/2014

Product Name: Ampicillin AM-10

(Contd. of page 5)

#### · Additional toxicological information:

The product is not subject to OSHA classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

69-53-4 Ampicillin

3

· NTP (National Toxicology Program)

None of the ingredients is listed.

## 12 Ecological information

- · Toxicity
- · 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.
- · Ecotoxical effects:
- · Other information:

The ecological effects have not been thoroughly investigated, but currently none have been identified.

- · 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.

### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Smaller quantities can be disposed of with solid waste.

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements. This product is not considered a RCRA hazardous waste.

- Uncleaned packagings:
- · Recommendation: Disposal must be made according to state and federal regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.



Date Prepared: 03/25/2014 Reviewed On: 03/25/2014

Product Name: Ampicillin AM-10

(Contd. of page 6)

· UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	
· DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	l <b>of</b> Not applicable.
· Transport/Additional information:	If a "void" appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation.
· UN "Model Regulation":	-

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· SARA Section 313 (specific toxic chemical listings)

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act)

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause cancer

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

(Contd. on page 8)



Date Prepared: 03/25/2014 Reviewed On: 03/25/2014

Product Name: Ampicillin AM-10

(Contd. of page 7)

· California Proposition 65 - Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Carcinogenic categories
- · TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· GHS label elements

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

· Hazard pictograms



- · Signal word Danger
- · Hazard-determining components of labeling:

**Ampicillin** 

· Hazard statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P284 In case of inadequate ventilation wear respiratory protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P272 Contaminated work clothing should not be allowed out of the workplace.

P321 Specific treatment (see on this label).

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/

physician.

P363 Wash contaminated clothing before reuse.

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

- · National regulations
- · Water hazard class: Generally not hazardous for water.

(Contd. on page 9)



Date Prepared: 03/25/2014 Reviewed On: 03/25/2014

Product Name: Ampicillin AM-10

(Contd. of page 8)

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

#### · Department issuing MSDS:

Environmental, Health & Safety Created by Michael J. Spinazzola

- · Contact: Technical Service Representative
- · Date of preparation / last revision 03/25/2014 / -
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1



Reviewed On: 07/31/2014 Date Prepared: 10/16/2014

#### 1 Identification

· Product Identifier

· Product Name: Erythromycin E-15

· Catalog Number: 231290

· Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

· Application of the substance / the mixture In-vitro Diagnostics

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

BD Diagnostic Systems

7 Loveton Circle Sparks, MD 21152

Telephone: (410) 771 - 0100 or (800) 638 - 8663 Email Address: Technical\_Services@bd.com · Information Department: Technical Service

· Emergency telephone number:

In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic

Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

## 2 Hazard(s) identification

- · Classification of the substance or mixture The substance is not classified according to the Globally Harmonized System (GHS).
- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29 CFR 1910.1200, the Canada's Workplace Hazardous Materials Information System (WHMIS) and the European Directive 67/548/EEC and 1999/45/EC.
- · Label elements
- GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · NFPA ratings (scale 0-4)



Health = 0Flammability = 0Reactivity = 0

· HMIS ratings (scale 0-4)



O Health = 0 Flammability = 0REACTIVITY  $\bigcirc$  Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.

(Contd. on page 2)



Date Prepared: 10/16/2014 Reviewed On: 07/31/2014

Product Name: Erythromycin E-15

· **vPvB**: Not applicable.

(Contd. of page 1)

#### 3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description:

Not applicable

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#### 4 First-aid measures

- · Description of first aid measures
- · General information No special measures required.
- · After inhalation Seek medical treatment in case of complaints.
- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Information for doctor Show this product label or this SDS.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents

CO2, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.

· 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: Wipe up with damp sponge or mop.
- · Methods and material for containment and cleaning up: No special measures required.

(Contd. on page 3)



Date Prepared: 10/16/2014 Reviewed On: 07/31/2014

Product Name: Erythromycin E-15

(Contd. of page 2)

· Reference to other sections No dangerous substances are released.

### 7 Handling and storage

- · Precautions for safe handling Keep receptacles tightly sealed.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from oxidizing agents.
- Further information about storage conditions: Store in cool, dry conditions in well sealed containers.
- · 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 Section 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

  The usual process tioners measures for handling chamicals

The usual precautionary measures for handling chemicals should be followed.

· Breathing equipment:

In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.

· Protection of hands:





Chemical resistant gloves (i.e. nitrile, or equivalent).

- · Eye protection: Safety glasses
- · Body protection: Protective work clothing (lab coat).

119



Date Prepared: 10/16/2014 Reviewed On: 07/31/2014

Product Name: Erythromycin E-15

(Contd. of page 3)

## 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Solid.

**Color:** According to product specification

· Odor: Characteristic

Change in condition
 Melting point/Melting range:
 Boiling point/Boiling range:
 Undetermined
 Not determined
 Not determined

· Flash point: Not applicable

· Flammability (solid, gaseous) Product is not flammable.

• **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** Not determined

· Solubility in / Miscibility with

Water: Insoluble
Solids content: 100.0 %

Other information
 No further relevant information available.

## 10 Stability and reactivity

- · Reactivity
- · 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: 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: No irritating effect.
- · on the eye: No irritating effect.
- · Sensitization: Sensitizing effect through inhalation is possible with prolonged exposure.

(Contd. on page 5)



Date Prepared: 10/16/2014 Reviewed On: 07/31/2014

Product Name: Erythromycin E-15

(Contd. of page 4)

#### · Additional toxicological information:

The product is not subject to OSHA classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

#### 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.
- · Ecotoxical effects:
- · Other information:

The ecological effects have not been thoroughly investigated, but currently none have been identified.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Smaller quantities can be disposed of with solid waste.

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements. This product is not considered a RCRA hazardous waste.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to state and federal regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.



Date Prepared: 10/16/2014 Reviewed On: 07/31/2014

Product Name: Erythromycin E-15

(Contd. of page 5)

· UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	
· DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	l of Not applicable.
· Transport/Additional information:	If a "void" appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation.
· UN "Model Regulation":	-

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · SARA Section 355 (extremely hazardous substances)

Substance is not listed.

· SARA Section 313 (specific toxic chemical listings)

Substance is not listed.

· TSCA (Toxic Substances Control Act)

Substance is not listed.

· California Proposition 65 - Chemicals known to cause cancer

Substance is not listed.

· California Proposition 65 - Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

(Contd. on page 7)



Date Prepared: 10/16/2014 Reviewed On: 07/31/2014

Product Name: Erythromycin E-15

(Contd. of page 6)

· California Proposition 65 - Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· California Proposition 65 - Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

· Department issuing SDS:

Environmental, Health & Safety Created by Michael J. Spinazzola

- · Date of preparation / last revision 10/16/2014 / -
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)



Reviewed On: 08/05/2014 Date Prepared: 10/15/2014

#### 1 Identification

· Product Identifier

· Product Name: Neomycin · Catalog Number: 231313

· Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

· Application of the substance / the mixture In-vitro Diagnostics

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

BD Diagnostic Systems

7 Loveton Circle Sparks, MD 21152

Telephone: (410) 771 - 0100 or (800) 638 - 8663 Email Address: Technical\_Services@bd.com

· Information Department: Technical Service

· Emergency telephone number:

In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

### 2 Hazard(s) identification

- · Classification of the substance or mixture The product is not classified according to the Globally Harmonized System (GHS).
- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29 CFR 1910.1200, the Canada's Workplace Hazardous Materials Information System (WHMIS) and the European Directive 67/548/EEC and 1999/45/EC.
- Classification system:

The classification was made according to the latest editions of international substances lists. and expanded upon from company and literature data.

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · NFPA ratings (scale 0-4)



Health = 0Flammability = 0Reactivity = 0

· HMIS ratings (scale 0-4)



 $\bigcirc$  Health = 0 Flammability = 0



Date Prepared: 10/15/2014 Reviewed On: 08/05/2014

Product Name: Neomycin

(Contd. of page 1)

· Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

#### 3 Composition/information on ingredients

· Chemical characterization: Mixture

· **Description**: Mixture consisting of the following components.

· Dangerous Components: Void

· Additional information Risk phrases refer to section 15.

#### 4 First-aid measures

- · Description of first aid measures
- · General information No special measures required.
- · After inhalation Seek medical treatment in case of complaints.
- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing If symptoms persist consult doctor.
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Information for doctor Show this product label or this SDS.
- Indication of any immediate medical attention and special treatment needed.

  No further relevant information available.

## 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents

CO2, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · 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: Wipe up with damp sponge or mop.

(Contd. on page 3)



Date Prepared: 10/15/2014 Reviewed On: 08/05/2014

Product Name: Neomycin

(Contd. of page 2)

- · Methods and material for containment and cleaning up: No special measures required.
- · Reference to other sections No dangerous substances are released.

### 7 Handling and storage

- · Precautions for safe handling Keep receptacles tightly sealed.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from oxidizing agents.
- Further information about storage conditions: Store in cool, dry conditions in well sealed containers.
- · **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 Section 7.
- · 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.
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal Protective Equipment
- General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

- · Breathing equipment: Not required.
- · Protection of hands:





Chemical resistant gloves (i.e. nitrile, or equivalent).

- · Eye protection: Safety glasses
- · Body protection: Protective work clothing (lab coat).

HS



Date Prepared: 10/15/2014 Reviewed On: 08/05/2014

Product Name: Neomycin

(Contd. of page 3)

### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Solid.

Color: According to product specification

· Odor: Characteristic

Change in condition
 Melting point/Melting range:
 Boiling point/Boiling range:
 Undetermined
 Not determined
 Not determined

· Flash point: Not applicable

· Flammability (solid, gaseous) Product is not flammable.

· Danger of explosion: Product does not present an explosion hazard.

· **Density:** Not determined

· Solubility in / Miscibility with

Water: Soluble

· Solvent content:

Solids content: 100.0 %

· Other information No further relevant information available.

### 10 Stability and reactivity

- · Reactivity
- · 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: 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: No irritating effect.
- · on the eye: No irritating effect.
- · Sensitization: Sensitizing effect through inhalation is possible with prolonged exposure.

(Contd. on page 5)



Date Prepared: 10/15/2014 Reviewed On: 08/05/2014

Product Name: Neomycin

(Contd. of page 4)

· Additional toxicological information:

The product is not subject to OSHA classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

### 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.
- · Ecotoxical effects:
- · Other information:

The ecological effects have not been thoroughly investigated, but currently none have been identified.

- · 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.

### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Smaller quantities can be disposed of with solid waste.

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements. This product is not considered a RCRA hazardous waste.

- Uncleaned packagings:
- · Recommendation: Disposal must be made according to state and federal regulations.

(Contd. on page 6)



Date Prepared: 10/15/2014 Reviewed On: 08/05/2014

Product Name: Neomycin

(Contd. of page 5)

· Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	
	Void
DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name	
DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· DOT, ADR, IMDG, IATA	Void
Environmental hazards:	
Marine pollutant:	No
· Special precautions for user	Not applicable.
Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	If a "void" appears in the Hazard Class sect for the type of transportation, this indicates to product is not regulated for transportation.
· UN "Model Regulation":	-

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· SARA Section 313 (specific toxic chemical listings)

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act)

1405-10-3 Neomycin, sulfate (salt)

· California Proposition 65 - Chemicals known to cause cancer

None of the ingredients is listed.

(Contd. on page 7)



Date Prepared: 10/15/2014 Reviewed On: 08/05/2014

Product Name: Neomycin

(Contd. of page 6)

 California Proposition 65 - Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause developmental toxicity:

1405-10-3 Neomycin, sulfate (salt)

- · Carcinogenic categories
- · TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · National regulations
- · Water hazard class: Generally not hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

Department issuing SDS:

Environmental, Health & Safety Created by Michael J. Spinazzola

- · Date of preparation / last revision 10/15/2014 / -
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)



Reviewed On: 07/10/2013 Date Prepared: 07/10/2013

#### 1 Identification

· Product Identifier

· Product Name: Penicillin P-10

· Catalog Number: 231321

· Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

· Application of the substance / the preparation In-vitro Diagnostics

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

BD Diagnostic Systems

7 Loveton Circle

Sparks, MD 21152 Telephone: (410) 771 - 0100 or (800) 638 - 8663

Email Address: Technical\_Services@bd.com · Information Department: Technical Service

· Emergency telephone number:

In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic

Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

## 2 Hazard(s) identification

- · Classification of the substance or mixture The substance is not classified according to the Globally Harmonized System (GHS).
- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29 CFR 1910.1200, the Canada's Workplace Hazardous Materials Information System (WHMIS) and the European Directive 67/548/EEC and 1999/45/EC.
- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · NFPA ratings (scale 0-4)



Health = 0Flammability = 0Reactivity = 0

· HMIS ratings (scale 0-4)



O Health = 0 Flammability = 0REACTIVITY  $\bigcirc$  Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.

(Contd. on page 2)



Date Prepared: 07/10/2013 Reviewed On: 07/10/2013

Product Name: Penicillin P-10

· vPvB: Not applicable.

(Contd. of page 1)

#### 3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description:

Not applicable penicillin

#### 4 First-aid measures

- · Description of first aid measures
- · General information No special measures required.
- · After inhalation Seek medical treatment in case of complaints.
- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing If symptoms persist consult doctor.
- · Information for doctor Show this product label or this MSDS.
- 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

CO2, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.

· 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: Wipe up with damp sponge or mop.
- · Methods and material for containment and cleaning up: No special measures required.

(Contd. on page 3)



Date Prepared: 07/10/2013 Reviewed On: 07/10/2013

Product Name: Penicillin P-10

(Contd. of page 2)

· Reference to other sections No dangerous substances are released.

### 7 Handling and storage

- · Handling
- · Precautions for safe handling Keep receptacles tightly sealed.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility:
  Store away from oxidizing agents.
- Further information about storage conditions: Store in cool, dry conditions in well sealed containers.
- · **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 Section 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

The usual precautionary measures for handling chemicals should be followed.

- · Breathing equipment: Not required.
- · Protection of hands:





Chemical resistant gloves (i.e. nitrile, or equivalent).

- · Eye protection: Safety glasses
- · Body protection: Protective work clothing (lab coat).

US



Date Prepared: 07/10/2013 Reviewed On: 07/10/2013

Product Name: Penicillin P-10

(Contd. of page 3)

### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Solid.

**Color:** According to product specification

· Odor: Characteristic

Change in condition
 Melting point/Melting range:
 Boiling point/Boiling range:
 Undetermined
 Not determined
 Not determined

· Flash point: Not applicable

· Flammability (solid, gaseous) Product is not flammable.

· Danger of explosion: Product does not present an explosion hazard.

· **Density:** Not determined

· Solubility in / Miscibility with

Water: Soluble
Solids content: 100.0 %

Other information
 No further relevant information available.

## 10 Stability and reactivity

- · Reactivity
- · 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: 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: No irritating effect.
- · on the eye: No irritating effect.
- · Sensitization: Sensitizing effect through inhalation is possible with prolonged exposure.

(Contd. on page 5)



Date Prepared: 07/10/2013 Reviewed On: 07/10/2013

Product Name: Penicillin P-10

(Contd. of page 4)

· Additional toxicological information:

The product is not subject to OSHA classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

### 12 Ecological information

- · Toxicity
- · 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.
- · Ecotoxical effects:
- · Other information:

The ecological effects have not been thoroughly investigated, but currently none have been identified.

- · 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.

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Smaller quantities can be disposed of with solid waste.

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements. This product is not considered a RCRA hazardous waste.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to state and federal regulations.

(Contd. on page 6)



Date Prepared: 07/10/2013 Reviewed On: 07/10/2013

Product Name: Penicillin P-10

(Contd. of page 5)

· Recommended cleansing agent: Water, if necessary with cleansing agents.

LINI Norman	
· UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	
· DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	If a "void" appears in the Hazard Class sect for the type of transportation, this indicates to product is not regulated for transportation.
· UN "Model Regulation":	-

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · SARA Section 355 (extremely hazardous substances)

Substance is not listed.

· SARA Section 313 (specific toxic chemical listings)

Substance is not listed.

· TSCA (Toxic Substances Control Act)

Substance is not listed.

· California Proposition 65 - Chemicals known to cause cancer

Substance is not listed.

(Contd. on page 7)



Date Prepared: 07/10/2013 Reviewed On: 07/10/2013

Product Name: Penicillin P-10

(Contd. of page 6)

 California Proposition 65 - Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· California Proposition 65 - Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· California Proposition 65 - Chemicals known to cause developmental toxicity:

Substance is not listed.

- · Carcinogenic categories
- · TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · National regulations
- · Water hazard class: Generally not hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

Department issuing MSDS:

Environmental, Health & Safety Created by Michael J. Spinazzola

- · Contact: Technical Service Representative
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

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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

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)