SAFETY DATA SHEETS

This SDS packet was issued with item:

078715781

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078715799



Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Revision Date: 10/06/2015 Date of issue: 10/06/2015

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier Product Form: Mixture

Product Name: VetriPen G Penicillin Injection (penicillin G procaine)1.2. Intended Use of the Product Veterinary Antibiotic

1.3. Name, Address, and Telephone of the Responsible Party

Company

Bimeda Inc. One Tower Lane

Oakbrook Terrace Tower Oakbrook Terrace, IL 60181

www.bimedaus.com

T 630.928.0361 F 630.928.0362

1.4. Emergency Telephone Number

Emergency Number : 519-654-8055

800-424-9300 CHEMTREC (in US); +1 703-527-3887 CHEMTREC (International and

Maritime)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US classification

Acute Tox. 4 (Oral) H302
Resp. Sens. 1 H334
Skin Sens. 1 H317
Muta. 2 H341
Full text of H-phrases: see section 16

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)





Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H302 - Harmful if swallowed.

H317 - May cause an allergic skin reaction.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341 - Suspected of causing genetic defects.

Precautionary Statements (GHS-US): P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P261 - Avoid breathing vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P272 - Contaminated work clothing must not be allowed out of the workplace.

P280 - Wear protective gloves, protective clothing, and eye protection. P284 - [In case of inadequate ventilation] wear respiratory protection. P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.

P302+P352 - If on skin: Wash with plenty of water.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position

comfortable for breathing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P321 - Specific treatment (see section 4 on this SDS).

P330 - Rinse mouth.

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

P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor.

P363 - Wash contaminated clothing before reuse.

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P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product Identifier | % | GHS-US classification |
|--|--------------------|-----------|---|
| Sodium formaldehyde sulfoxylate | (CAS No) 149-44-0 | <= 68.6 | Muta. 2, H341 |
| 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-[(phenylacetyl)amino]- [2S-(2.alpha.,5.alpha.,6.beta.)]-, monopotassium salt | (CAS No) 113-98-4 | 20.71 | Resp. Sens. 1, H334 Skin Sens. 1, H317 |
| Benzoic acid, 4-amino-, 2-(diethylamino)ethyl ester, monohydrochloride | (CAS No) 51-05-8 | 17.28 | Acute Tox. 3 (Oral), H301 Skin Sens. 1, H317 |
| Water | (CAS No) 7732-18-5 | 3 | Not classified |
| Disodium carbonate | (CAS No) 497-19-8 | <= 1.4 | Eye Irrit. 2A, H319 |
| Trisodium citrate dihydrate | (CAS No) 6132-04-3 | 1.09 | Comb. Dust, H232 |
| Soybean lecithin | (CAS No) 8002-43-5 | 0.65 | Not classified |
| 2-Pyrrolidinone, 1-ethenyl-, homopolymer | (CAS No) 9003-39-8 | 0.54 | Comb. Dust, H232 |
| Benzoic acid, 4-hydroxy-, methyl ester | (CAS No) 99-76-3 | 0.14 | Comb. Dust, H232 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412 |
| Sodium carboxymethyl cellulose | (CAS No) 9004-32-4 | 0.11 | Comb. Dust, H232 |
| Propyl 4-hydroxybenzoate | (CAS No) 94-13-3 | 0.02 | Comb. Dust, H232 Aquatic Acute 2, H401 |
| Formaldehyde | (CAS No) 50-00-0 | < 0.00001 | Flam. Gas 1, H220 Liquefied gas, H280 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:gas), H330 Skin Corr. 1A, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 Muta. 1B, H340 Carc. 1A, H350 STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 2, H401 |

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Harmful if swallowed. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin sensitization. Suspected of causing genetic defects.

Symptoms/Injuries After Inhalation: Exposure may produce cough mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction.

Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: This material is harmful orally and can cause adverse health effects or death in significant amounts.

Chronic Symptoms: Suspected of causing genetic defects.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. **Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. See Section 13, Disposal Considerations.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing. Obtain special instructions before use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not handle until all safety precautions have been read and understood.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Products: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s) Veterinary Antibiotic

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

| Formaldehyde (50-00-0) | | |
|------------------------|---------------------------|---|
| USA ACGIH | ACGIH Ceiling (ppm) | 0.3 ppm |
| USA ACGIH | ACGIH chemical category | dermal sensitizer, Suspected Human Carcinogen |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 0.016 ppm |
| USA NIOSH | NIOSH REL (ceiling) (ppm) | 0.1 ppm |
| USA IDLH | US IDLH (ppm) | 20 ppm |
| USA OSHA | OSHA PEL (TWA) (ppm) | 0.75 ppm |
| USA OSHA | OSHA PEL (STEL) (ppm) | 2 ppm (see 29 CFR 1910.1048) |

8.2. Exposure Controls

Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.









Materials for Protective Clothing

Hand Protection
Eye Protection
Skin and Body Protection
Respiratory Protection

: Chemically resistant materials and fabrics.

: Wear protective gloves.: Chemical safety goggles.

: Wear suitable protective clothing.

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory

protection.

Other Information : When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State : Liquid

Appearance: White SuspensionOdor: No data availableOdor Threshold: No data available

pH : 5.0 - 7.0

Evaporation Rate: No data availableMelting Point: No data availableFreezing Point: No data available

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| Boiling Point | : No data available |
|--|---------------------|
| Flash Point | : No data available |
| Auto-ignition Temperature | : No data available |
| Decomposition Temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor Pressure | : No data available |
| Relative Vapor Density at 20 °C | : No data available |
| Relative Density | : No data available |
| Solubility | : No data available |
| Partition Coefficient: N-Octanol/Water | : No data available |
| Viscosity | : No data available |
| | |

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

- **10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- **10.2.** Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
- **10.3.** Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
- **10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.
- **10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- 10.6. Hazardous Decomposition Products: Carbon oxides (CO, CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Oral: Harmful if swallowed.

| VetriPen G Penicillin Injection (penicillin G procaine) | | | |
|--|---|--|--|
| ATE (Oral) 1,157.41 mg/kg body weight | | | |
| 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic ac | 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-[(phenylacetyl)amino]- [2S- | | |
| (2.alpha.,5.alpha.,6.beta.)]-, monopotassium salt (113-98-4) | | | |
| LD50 Oral Rat | 8900 mg/kg | | |
| Sodium carboxymethyl cellulose (9004-32-4) | | | |
| LD50 Oral Rat | 27000 mg/kg | | |
| LD50 Dermal Rabbit | > 2000 mg/kg | | |
| LC50 Inhalation Rat | > 5800 mg/m³ (Exposure time: 4 h) | | |
| LC50 Inhalation Rat | > 5.8 mg/l/4h | | |
| Benzoic acid, 4-hydroxy-, methyl ester (99-76-3) | | | |
| LD50 Oral Rat | 2100 mg/kg | | |
| Benzoic acid, 4-amino-, 2-(diethylamino)ethyl ester, monohydrochloride (51-05-8) | | | |
| LD50 Oral Rat | 200 mg/kg | | |
| Propyl 4-hydroxybenzoate (94-13-3) | | | |
| LD50 Oral Rat | > 5000 mg/kg | | |
| 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9003- | 39-8) | | |
| LD50 Oral Rat | 100000 mg/kg | | |
| Sodium formaldehyde sulfoxylate (149-44-0) | | | |
| LD50 Oral Rat | > 5000 mg/kg | | |
| LD50 Dermal Rat | > 2000 mg/kg | | |
| Disodium carbonate (497-19-8) | | | |
| LD50 Oral Rat | 4090 mg/kg | | |
| LC50 Inhalation Rat | 2300 mg/m³ (Exposure time: 2 h) | | |
| LC50 Inhalation Rat | 1.2 mg/l/4h | | |
| Formaldehyde (50-00-0) | | | |
| LD50 Oral Rat | 100 mg/kg | | |
| LD50 Dermal Rat | 270 mg/kg | | |
| LC50 Inhalation Rat | 480 ppm/4h | | |

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Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an

allergic skin reaction.

Germ Cell Mutagenicity: Suspected of causing genetic defects.

Carcinogenicity: Not classified

| 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9003-39-8) | |
|--|---|
| IARC group | 3 |
| Formaldehyde (50-00-0) | |
| IARC group | 1 |
| National Toxicology Program (NTP) Status | Known Human Carcinogens. |
| OSHA Hazard Communication Carcinogen List | In OSHA Hazard Communication Carcinogen list. |
| OSHA Specifically Regulated Carcinogen List | In OSHA Specifically Regulated Carcinogen list. |

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Exposure may produce cough mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction.

Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction. **Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: This material is harmful orally and can cause adverse health effects or death in significant

amounts.

Chronic Symptoms: Suspected of causing genetic defects.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Not classified.

| 5. | | | |
|--|--|--|--|
| 4-Thia-1-azabicyclo[3.2.0]heptane-2-carb | oxylic acid, 3,3-dimethyl-7-oxo-6-[(phenylacetyl)amino]- [2S- | | |
| (2.alpha.,5.alpha.,6.beta.)]-, monopotass | (2.alpha.,5.alpha.,6.beta.)]-, monopotassium salt (113-98-4) | | |
| LC50 Fish 1 | > 500 mg/l (Exposure time: 96 h - Species: Leuciscus idus melanotus [static]) | | |
| EC50 Daphnia 1 | > 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna) | | |
| Benzoic acid, 4-hydroxy-, methyl ester (99-76-3) | | | |
| LC50 Fish 1 | 59.5 mg/l (Exposure time: 96 h - Species: Oryzias latipes) | | |
| EC50 Daphnia 1 | 11.2 mg/l | | |
| ErC50 (algae) | 91 mg/l | | |
| NOEC chronic crustacea | 0.2 mg/l (Species: Daphnia magna) | | |
| NOEC chronic algae | 20 mg/l | | |
| Propyl 4-hydroxybenzoate (94-13-3) | | | |
| LC50 Fish 1 | 4.1 (4.1 - 8.8) mg/l (Exposure time: 96 h - Species: Danio rerio) | | |
| EC50 Daphnia 1 | 7.97 (7.97 - 32.3) mg/l | | |
| NOEC chronic algae | 2.1 mg/l | | |
| Disodium carbonate (497-19-8) | | | |
| LC50 Fish 1 | 300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) | | |
| EC50 Daphnia 1 | 265 mg/l (Exposure time: 48 h - Species: Daphnia magna) | | |
| LC 50 Fish 2 | 310 - 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) | | |
| Formaldehyde (50-00-0) | | | |
| LC50 Fish 1 | 22.6 - 25.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) | | |
| EC50 Daphnia 1 | 2 mg/l (Exposure time: 48 h - Species: Daphnia magna) | | |
| LC 50 Fish 2 | 1510 μg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) | | |
| EC50 Daphnia 2 | 11.3 - 18 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) | | |

12.2. Persistence and Degradability

| VetriPen G Penicillin Injection (penicillin G procaine) | |
|---|------------------|
| Persistence and Degradability | Not established. |

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| Benzoic acid, 4-hydroxy-, methyl ester (99-76-3) | |
|--|--|
| Persistence and Degradability | Readily biodegradable, according to appropriate OECD test. |

12.3. Bioaccumulative Potential

| VetriPen G Penicillin Injection (penicillin G procaine) | | |
|--|---|--|
| Bioaccumulative Potential | Not established. | |
| 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxyl | ic acid, 3,3-dimethyl-7-oxo-6-[(phenylacetyl)amino]- [2S- | |
| (2.alpha.,5.alpha.,6.beta.)]-, monopotassium salt (113-98-4) | | |
| Log Pow 1.83 | | |
| Benzoic acid, 4-hydroxy-, methyl ester (99-76-3) | | |
| Bioconcentration factor (BCF REACH) 6.4 | | |
| Log Pow | 1.98 | |
| Disodium carbonate (497-19-8) | | |
| BCF fish 1 | (no bioaccumulation) | |
| Formaldehyde (50-00-0) | | |
| Log Pow | 0.35 (at 25 °C) | |

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology – Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT Not regulated for transport14.2. In Accordance with IMDG Not regulated for transport

14.3. In Accordance with IATA Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

| 15.1 US Federal Regulations | | |
|---|--|--|
| VetriPen G Penicillin Injection (penicillin G procaine) | | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard | |
| 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-[(phenylacetyl)amino]- [2S- | | |
| (2.alpha.,5.alpha.,6.beta.)]-, monopotassium salt (113-98-4) | | |
| Listed on the United States TSCA (Toxic Substances Contro | ol Act) inventory | |
| Sodium carboxymethyl cellulose (9004-32-4) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| Soybean lecithin (8002-43-5) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| Benzoic acid, 4-hydroxy-, methyl ester (99-76-3) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| Benzoic acid, 4-amino-, 2-(diethylamino)ethyl ester, monohydrochloride (51-05-8) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| Propyl 4-hydroxybenzoate (94-13-3) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9003-39-8) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| Sodium formaldehyde sulfoxylate (149-44-0) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. | |
| | under 156A. | |

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| Disodium carbonate (497-19-8) | | |
|---|---------------------------------|--|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard | |
| Formaldehyde (50-00-0) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| Listed on the United States SARA Section 302 | | |
| Subject to reporting requirements of United States SARA Section 313 | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 500 | |
| SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard | |
| | Immediate (acute) health hazard | |
| | Fire hazard | |
| SARA Section 313 - Emission Reporting | 0.1 % | |
| Water (7732-18-5) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |

15.2 US State Regulations

| Formaldehyde (50-00-0) | |
|--|--|
| U.S California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of |
| | California to cause cancer. |
| Formaldehyde (50-00-0) | |
| U.S Massachusetts - Right To Know List | |
| | |

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 10/06/2015

Other Information : This document has been prepared in accordance with the SDS

requirements of the OSHA Hazard Communication Standard 29 CFR

1910.1200.

GHS Full Text Phrases:

| Acute Tox. 2 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 2 |
|-------------------------------|--|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal) Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Acute 2 | Hazardous to the aquatic environment - Acute Hazard Category 2 |
| Aquatic Acute 3 | Hazardous to the aquatic environment - Acute Hazard Category 3 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Carc. 1A | Carcinogenicity Category 1A |
| Comb. Dust | Combustible Dust |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Flam. Gas 1 | Flammable gases Category 1 |
| Liquefied gas | Gases under pressure Liquefied gas |
| Muta. 1B | Germ cell mutagenicity Category 1B |
| Muta. 2 | Germ cell mutagenicity Category 2 |
| Resp. Sens. 1 | Respiratory sensitization Category 1 |
| Skin Corr. 1A | Skin corrosion/irritation Category 1A |
| Skin Sens. 1 | Skin sensitization Category 1 |
| Skin Sens. 1B | Skin sensitization Category 1B |
| STOT RE 1 | Specific target organ toxicity (repeated exposure) Category 1 |
| STOT SE 1 | Specific target organ toxicity (single exposure) Category 1 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |

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| H220 | Extremely flammable gas |
|------|---|
| H232 | May form combustible dust concentrations in air |
| H280 | Contains gas under pressure; may explode if heated |
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H311 | Toxic in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H330 | Fatal if inhaled |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if |
| | inhaled |
| H335 | May cause respiratory irritation |
| H340 | May cause genetic defects |
| H341 | Suspected of causing genetic defects |
| H350 | May cause cancer |
| H370 | Causes damage to organs |
| H372 | Causes damage to organs through prolonged or repeated exposure |
| H401 | Toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H412 | Harmful to aquatic life with long lasting effects |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)

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According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Revision Date: 10/06/2015

Date of issue: 10/06/2015

Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier Product Form: Mixture

Product Name: Combi-Pen-48 Injection (penicillin G benzathine and penicillin G procaine)

1.2. Intended Use of the Product Veterinary Antibiotic

Name, Address, and Telephone of the Responsible Party 1.3.

Company

Bimeda Inc.

One Tower Lane

Oakbrook Terrace Tower Oakbrook Terrace, IL 60181

www.bimedaus.com

T 630.928.0361

F 630.928.0362

1.4. **Emergency Telephone Number**

Emergency Number : 519-654-8055

800-424-9300 CHEMTREC (in US); +1 703-527-3887 CHEMTREC (International and

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS-US classification

H315 Skin Irrit. 2 Eye Irrit. 2A H319 Resp. Sens. 1 H334 Skin Sens. 1 H317 Muta. 2 H341 Full text of H-phrases: see section 16

2.2. **Label Elements**

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341 - Suspected of causing genetic defects.

Precautionary Statements (GHS-US) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P261 - Avoid breathing vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling. P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves, protective clothing, and eye protection. P284 - [In case of inadequate ventilation] wear respiratory protection.

P302+P352 - If on skin: Wash with plenty of water.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position

comfortable for breathing.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - If exposed or concerned: Get medical advice/attention.

P321 - Specific treatment (see section 4 on this SDS).

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

P337+P313 - If eye irritation persists: Get medical advice/attention.

P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product Identifier | % | GHS-US classification |
|--|---------------------|---------|--|
| Sodium formaldehyde sulfoxylate | (CAS No) 149-44-0 | <= 68.6 | Muta. 2, H341 |
| 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6- [(phenylacetyl)amino]- [2S- (2.alpha.,5.alpha.,6.beta.)]-, compound with 2- (diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate | (CAS No) 6130-64-9 | 16.62 | Resp. Sens. 1, H334 Skin Sens. 1, H317 |
| 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-[(phenylacetyl)amino]-, [2S(2.alpha.,5.alpha.,6.beta.)]-, compound with N,N'-bis(phenylmethyl)-1,2-ethanediamine (2:1), tetrahydrate | (CAS No) 41372-02-5 | 14.01 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 |
| Water | (CAS No) 7732-18-5 | 3 | Not classified |
| Disodium carbonate | (CAS No) 497-19-8 | <= 1.4 | Eye Irrit. 2A, H319 |
| Soybean lecithin | (CAS No) 8002-43-5 | 1.28 | Not classified |
| Sorbitan monohexadecanoate | (CAS No) 26266-57-9 | 1.23 | Not classified |
| Polyoxyethylene sorbitan monopalmitate | (CAS No) 9005-66-7 | 0.89 | Not classified |
| Trisodium citrate dihydrate | (CAS No) 6132-04-3 | 0.43 | Comb. Dust, H232 |
| Benzoic acid, 4-hydroxy-, methyl ester | (CAS No) 99-76-3 | 0.13 | Comb. Dust, H232 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412 |
| Sodium carboxymethyl cellulose | (CAS No) 9004-32-4 | 0.11 | Comb. Dust, H232 |
| Propyl 4-hydroxybenzoate | (CAS No) 94-13-3 | 0.02 | Comb. Dust, H232 Aquatic Acute 2, H401 |

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| Formaldehyde | (CAS No) 50-00-0 | < 0.00001 | Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 Aquatic Acute 2, H401 |
|--------------|------------------|-----------|--|
|--------------|------------------|-----------|--|

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Causes serious eye irritation. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin sensitization. Suspected of causing genetic defects.

Symptoms/Injuries After Inhalation: Exposure may produce cough mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: Suspected of causing genetic defects.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. **Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

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Emergency Procedures: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. See Section 13, Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Obtain special instructions before use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Products: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s) Veterinary Antibiotic

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

| Formaldehyde (50-00-0) | | |
|------------------------|---------------------------|---|
| USA ACGIH | ACGIH Ceiling (ppm) | 0.3 ppm |
| USA ACGIH | ACGIH chemical category | dermal sensitizer, Suspected Human Carcinogen |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 0.016 ppm |
| USA NIOSH | NIOSH REL (ceiling) (ppm) | 0.1 ppm |
| USA IDLH | US IDLH (ppm) | 20 ppm |
| USA OSHA | OSHA PEL (TWA) (ppm) | 0.75 ppm |
| USA OSHA | OSHA PEL (STEL) (ppm) | 2 ppm (see 29 CFR 1910.1048) |

8.2. Exposure Controls

Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment : Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.









Materials for Protective Clothing

Hand Protection
Eye Protection

Skin and Body Protection Respiratory Protection : Chemically resistant materials and fabrics.

: Wear protective gloves.

: Chemical safety goggles.

: Wear suitable protective clothing.

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

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Other Information : When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State : Liquid

Appearance: White to off-whiteOdor: No data availableOdor Threshold: No data available

pH : 5.0 - 7.5

Evaporation Rate No data available **Melting Point** : No data available **Freezing Point** : No data available **Boiling Point** : No data available **Flash Point** : No data available **Auto-ignition Temperature** No data available **Decomposition Temperature** : No data available Flammability (solid, gas) : No data available **Vapor Pressure** : No data available Relative Vapor Density at 20 °C : No data available **Relative Density** No data available Solubility : No data available **Partition Coefficient: N-Octanol/Water** No data available Viscosity : No data available

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity: Hazardous reactions will not occur under normal conditions.
- 10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
- **10.3.** Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.
- **10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- 10.6. Hazardous Decomposition Products: Carbon oxides (CO, CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

| Sodium carboxymethyl cellulose (9004-32-4) | | |
|---|---|--|
| LD50 Oral Rat | 27000 mg/kg | |
| LD50 Dermal Rabbit | > 2000 mg/kg | |
| LC50 Inhalation Rat | > 5800 mg/m³ (Exposure time: 4 h) | |
| LC50 Inhalation Rat | > 5.8 mg/l/4h | |
| Benzoic acid, 4-hydroxy-, methyl ester (99-76-3) | | |
| LD50 Oral Rat | 2100 mg/kg | |
| 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-[(phenylacetyl)amino]-, | | |
| [2S(2.alpha.,5.alpha.,6.beta.)]-, compound with N | I,N'-bis(phenylmethyl)-1,2-ethanediamine (2:1), tetrahydrate (41372-02-5) | |
| ATE (Oral) | 500.00 mg/kg body weight | |
| () | socios inglika soci incigire | |
| ATE (Dermal) | 1,100.00 mg/kg body weight | |
| | <u> </u> | |
| ATE (Dermal) | 1,100.00 mg/kg body weight | |
| ATE (Dermal) ATE (Gases) | 1,100.00 mg/kg body weight 4,500.00 ppmV/4h | |
| ATE (Dermal) ATE (Gases) ATE (Vapors) | 1,100.00 mg/kg body weight 4,500.00 ppmV/4h 11.00 mg/l/4h 1.50 mg/l/4h | |

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| Propyl 4-hydroxybenzoate (94-13-3) | | |
|--|---------------------------------|--|
| LD50 Oral Rat | > 5000 mg/kg | |
| Polyoxyethylene sorbitan monopalmitate (9005-66-7) | | |
| LD50 Oral Rat | > 38400 mg/kg | |
| Sodium formaldehyde sulfoxylate (149-44-0) | | |
| LD50 Oral Rat | > 5000 mg/kg | |
| LD50 Dermal Rat | > 2000 mg/kg | |
| Disodium carbonate (497-19-8) | | |
| LD50 Oral Rat | 4090 mg/kg | |
| LC50 Inhalation Rat | 2300 mg/m³ (Exposure time: 2 h) | |
| LC50 Inhalation Rat | 1.2 mg/l/4h | |
| Formaldehyde (50-00-0) | | |
| LD50 Oral Rat | 100 mg/kg | |
| LD50 Dermal Rat | 270 mg/kg | |

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ Cell Mutagenicity: Suspected of causing genetic defects.

Carcinogenicity: Not classified

| Formaldehyde (50-00-0) | |
|---|---|
| IARC group | 1 |
| National Toxicology Program (NTP) Status | Known Human Carcinogens. |
| OSHA Hazard Communication Carcinogen List | In OSHA Hazard Communication Carcinogen list. |
| OSHA Specifically Regulated Carcinogen List | In OSHA Specifically Regulated Carcinogen list. |

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Exposure may produce cough mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: Suspected of causing genetic defects.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Not classified.

| Benzoic acid, 4-hydroxy-, methyl ester (99-76-3) | | |
|--|--|--|
| LC50 Fish 1 | 59.5 mg/l (Exposure time: 96 h - Species: Oryzias latipes) | |
| EC50 Daphnia 1 | 11.2 mg/l | |
| ErC50 (algae) | 91 mg/l | |
| NOEC chronic crustacea | 0.2 mg/l (Species: Daphnia magna) | |
| NOEC chronic algae | 20 mg/l | |
| Propyl 4-hydroxybenzoate (94-13-3) | | |
| LC50 Fish 1 | 4.1 (4.1 - 8.8) mg/l (Exposure time: 96 h - Species: Danio rerio) | |
| EC50 Daphnia 1 | 7.97 (7.97 - 32.3) mg/l | |
| NOEC chronic algae | 2.1 mg/l | |
| Disodium carbonate (497-19-8) | | |
| LC50 Fish 1 | 300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) | |
| EC50 Daphnia 1 | 265 mg/l (Exposure time: 48 h - Species: Daphnia magna) | |

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| LC 50 Fish 2 | 310 - 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
|------------------------|--|
| Formaldehyde (50-00-0) | |
| LC50 Fish 1 | 22.6 - 25.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 2 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC 50 Fish 2 | 1510 μg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| EC50 Daphnia 2 | 11.3 - 18 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |

12.2. Persistence and Degradability

| Combi-Pen-48 Injection (penicillin G benzathine and penicillin G procaine) | | |
|--|--|--|
| Persistence and Degradability Not established. | | |
| Benzoic acid, 4-hydroxy-, methyl ester (99-76-3) | | |
| Persistence and Degradability | Readily biodegradable, according to appropriate OECD test. | |

12.3. Bioaccumulative Potential

| Combi-Pen-48 Injection (penicillin G benzathine and penicillin G procaine) | | |
|--|--|--|
| Bioaccumulative Potential | ccumulative Potential Not established. | |
| Benzoic acid, 4-hydroxy-, methyl ester (99-76-3) | | |
| Bioconcentration factor (BCF REACH) | 6.4 | |
| Log Pow | 1.98 | |
| Disodium carbonate (497-19-8) | | |
| BCF fish 1 (no bioaccumulation) | | |
| Formaldehyde (50-00-0) | | |
| Log Pow | 0.35 (at 25 °C) | |

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology – Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT
 14.2. In Accordance with IMDG
 14.3. In Accordance with IATA
 Not regulated for transport
 Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

| Combi-Pen-48 Injection (penicillin G benzathine and penicillin G procaine) | | |
|--|---------------------------------|--|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard | |
| Sodium carboxymethyl cellulose (9004-32-4) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| Soybean lecithin (8002-43-5) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| Benzoic acid, 4-hydroxy-, methyl ester (99-76-3) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| Benzoic acid, 4-amino-, 2-(diethylamino)ethyl ester, monohydrochloride (51-05-8) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| Propyl 4-hydroxybenzoate (94-13-3) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| Sorbitan monohexadecanoate (26266-57-9) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |

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| Polyoxyethylene sorbitan monopalmitate (9005-66-7) | | |
|---|--|--|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| Sodium formaldehyde sulfoxylate (149-44-0) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule | |
| | under TSCA. | |
| Disodium carbonate (497-19-8) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard | |
| Formaldehyde (50-00-0) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| Listed on the United States SARA Section 302 | | |
| Subject to reporting requirements of United States SARA Section 313 | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 500 | |
| SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard | |
| | Immediate (acute) health hazard | |
| | Fire hazard | |
| SARA Section 313 - Emission Reporting | 0.1 % | |

15.2 US State Regulations

| Formaldehyde (50-00-0) | |
|--|--|
| U.S California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of |
| | California to cause cancer. |
| | |

Formaldehyde (50-00-0)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) Special Hazardous Substances
- U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 10/06/2015

 Other Information
 : This document has been prepared in accordance with the SDS

requirements of the OSHA Hazard Communication Standard 29 CFR

1910.1200.

GHS Full Text Phrases:

| Acute Tox. 3 (Dermal) | Acute toxicity (dermal) Category 3 |
|-------------------------------|--|
| Acute Tox. 3 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhalation) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Acute 2 | Hazardous to the aquatic environment - Acute Hazard Category 2 |
| Aquatic Acute 3 | Hazardous to the aquatic environment - Acute Hazard Category 3 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Carc. 1A | Carcinogenicity Category 1A |
| Comb. Dust | Combustible Dust |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Muta. 2 | Germ cell mutagenicity Category 2 |
| Resp. Sens. 1 | Respiratory sensitization Category 1 |
| Skin Corr. 1B | Skin corrosion/irritation Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |

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| Skin Sens. 1 | Skin sensitization Category 1 |
|---------------|---|
| Skin Sens. 1B | Skin sensitization Category 1B |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H232 | May form combustible dust concentrations in air |
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H311 | Toxic in contact with skin |
| H312 | Harmful in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |
| H332 | Harmful if inhaled |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if |
| | inhaled |
| H335 | May cause respiratory irritation |
| H341 | Suspected of causing genetic defects |
| H350 | May cause cancer |
| H401 | Toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H412 | Harmful to aquatic life with long lasting effects |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)

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