

Revision date: 21-Aug-2013

Version: 3.0

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: Clavamox® Tablets

Trade Name: Chemical Family: Clavamox Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Intended Use: Veterinary product used as antibiotic agent

Details of the Supplier of the Safety Data Sheet

Zoetis Inc.

100 Campus Drive, P.O. Box 651 Florham Park, New Jersey 07932 (USA) Rocky Mountain Poison Control Center Phone: 1-866-531-8896 Product Support/Technical Services Phone: 1-800-366-5288

Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300 Contact E-Mail: VMIPSrecords@zoetis.com Zoetis Belgium S.A. Mercuriusstraat 20 1930 Zaventem Belgium

Emergency telephone number: International CHEMTREC (24 hours): +1-703-527-3887

2. HAZARDS IDENTIFICATION

Appearance: Tablets Classification of the Substance or Mixture GHS - Classification

> Respiratory Sensitization: Category 1 Skin Sensitization: Category 1

EU Classification:

EU Indication of danger: Irritant Harmful

Xn

EU Symbol: EU Risk Phrases:

R42/43 - May cause sensitization by inhalation and skin contact.

Label Elements

Signal Word: Hazard Statements: Danger H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H317 - May cause an allergic skin reaction

| Material Name: | Clavamox® Tablets |
|-------------------------|-------------------|
| Revision date: 2 | 21-Aug-2013 |

| Precautionary Statements: | P261 - Avoid breathing dust/fume/gas/mist/vapors/spray |
|---------------------------|---|
| - | P285 - In case of inadequate ventilation wear respiratory protection |
| | P272 - Contaminated work clothing should not be allowed out of the workplace |
| | P280 - Wear protective gloves/protective clothing/eye protection/face protection |
| | P304 + P341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing |
| | P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician |
| | P302+ P352 - IF ON SKIN: Wash with plenty of soap and water |
| | P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention |
| | P321 - Specific treatment (see supplemental first aid instructions on this label) |
| | P363 - Wash contaminated clothing before reuse |



Other Hazards Short Term:

Known Clinical Effects:

Australian Hazard Classification (NOHSC):

Note:

Individuals who are allergic to penicillin antibiotics could have allergic reaction, possibly severe. If an allergic reaction occurs, the worker should be removed to the nearest emergency room and the appropriate therapy instituted. An Occupational Exposure Limit has been established for one or more of the ingredients (see Section 8).

May cause effects similar to those generally seen in clinical use of antibiotics including gastrointestinal irritation, vomiting, transient diarrhea, nausea, and abdominal pain. Hazardous Substance. Non-Dangerous Goods.

This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

| Ingredient | CAS Number | EU | EU Classification | GHS | % |
|----------------------------|------------|---------------|-------------------|--------------------|------|
| | | EINECS/ELINCS | | Classification | |
| | | List | | | |
| Potassium clavulanate | 61177-45-5 | 262-640-9 | Not Listed | Not Listed | 13.5 |
| Amoxicillin trihydrate | 61336-70-7 | Not Listed | Xn;R42/43 | Skin Sens. 1,H317; | 53 |
| | | | | Resp. Sens. | |
| | | | | 1,H334 | |
| Microcrystalline cellulose | 9004-34-6 | 232-674-9 | Not Listed | Not Listed | * |

| Ingredient | CAS Number | EU EINECS/ELINCS | EU Classification | GHS Classification | % |
|---------------------------|----------------|---------------------|-------------------|-----------------------|---|
| | | List | | | |
| Non-hazardous ingredients | NOT APPLICABLE | Not Listed | Not Listed | Not Listed | * |

Additional Information:

* Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

4. FIRST AID MEASURES

| Description of First Aid Measures Eye Contact: | Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately. |
|---|--|
| Skin Contact: | Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention. |
| Ingestion: | Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately. |
| Inhalation: | Remove to fresh air and keep patient at rest. Seek medical attention immediately. |
| Most Important Symptoms and Effe Symptoms and Effects of Exposure: Medical Conditions Aggravated by Exposure: | cts, Both Acute and Delayed For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information. None known |

Indication of the Immediate Medical Attention and Special Treatment Needed None

Notes to Physician:

5. FIRE-FIGHTING MEASURES

Extinguishing Media:

Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Formation of toxic gases is possible during heating or fire. Products:

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

| Measures for Cleaning / | Contain the source of spill if it is safe to do so. Collect spilled material by a method that |
|-------------------------|---|
| Collecting: | controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of |
| | dry solids. Clean spill area thoroughly. |

| Additional Consideration for | Non-essential personnel should be evacuated from affected area. Report emergency |
|------------------------------|---|
| Large Spills: | situations immediately. Clean up operations should only be undertaken by trained personnel. |

7. HANDLING AND STORAGE

Precautions for Safe Handling

Minimize dust generation and accumulation. If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with eyes, skin, and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

Conditions for Safe Storage, Including any Incompatibilities

| Storage Conditions: | Store as directed by product packaging. |
|----------------------|---|
| Specific end use(s): | No data available |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Refer to available public information for specific member state Occupational Exposure Limits.

| 10 mg/m ³ |
|----------------------|
| 10 mg/m ³ |
| 4 mg/m³ |
| 2 mg/m ³ |
| 10 mg/m ³ |
| 5 mg/m³ |
| 15 mg/m³ |
| 10 mg/m ³ |
| 10 mg/m ³ |
| 3 mg/m³ |
| |

The purpose of the Occupational Exposure Band (OEB) classification system is to separate substances into different Hazard categories when the available data are sufficient to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to revision when new information becomes available.

| Amoxicillin trihydrate Zoetis OEB | OEB 2 - Sensitizer (control exposure to the range of 100ug/m ³ to < 1000ug/m ³ , provide additional precautions to protect from skin contact) |
|---|--|
| Analytical Method: Exposure Controls | Analytical method available for Amoxicillin. Contact Pfizer Inc for further information. |
| Engineering Controls: | Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne contamination levels below the exposure limits listed above in this section. |
| Personal Protective Equipment: | Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE). |

Respiratory protection:

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| . F | ıa | n | a | s: | |
|-----|----|---|---|----|--|
| | | | | | |

Eyes: Skin: Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations. Wear safety glasses or goggles if eye contact is possible. Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations. If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear an appropriate respirator with a protection factor sufficient to control exposures to the bottom of the OEB range.

9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical State: Odor: Molecular Formula: | Tablet No data available. Mixture | Color: Odor Threshold: Molecular Weight: | No data available. No data available. Mixture |
|---|---|---|---|
| Solvent Solubility: Water Solubility: pH: Melting/Freezing Point (°C): Boiling Point (°C): Partition Coefficient: (Method, pH, B No data available Decomposition Temperature (°C): | No data available No data available No data available. No data available No data available. Endpoint, Value) No data available. | | |
| Evaporation Rate (Gram/s): Vapor Pressure (kPa): Vapor Density (g/ml): Relative Density: Viscosity: | No data available No data available No data available No data available No data available | | |
| Flammablity: Autoignition Temperature (Solid) (°C): Flammability (Solids): Flash Point (Liquid) (°C): Upper Explosive Limits (Liquid) (% by Vol.): Lower Explosive Limits (Liquid) (% by Vol.): Polymerization: | | No data available No data available No data available No data available No data available Will not occur | |

10. STABILITY AND REACTIVITY

| Reactivity: |
|------------------------------------|
| Chemical Stability: |
| Possibility of Hazardous Reactions |
| Oxidizing Properties: |
| Conditions to Avoid: |
| Incompatible Materials: |
| Hazardous Decomposition |
| Products: |
| |

No data available Stable under normal conditions of use.

No data available Fine particles (such as dust and mists) may fuel fires/explosions. As a precautionary measure, keep away from strong oxidizers No data available

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

General Information:

The information included in this section describes the potential hazards of the individual ingredients.

Acute Toxicity: (Species, Route, End Point, Dose)

Amoxicillin trihydrate

MouseOralLD50> 25 g/kgRatOralLD50> 15g/kgRabbitOralLD50> 12g/kgRatSCLD50> 8g/kg

Potassium clavulanate

Mouse Oral LD50 4526 mg/kg Rat Oral LD50 7936mg/kg

Microcrystalline cellulose

RatOralLD50> 5000 mg/kgRabbitDermalLD50> 2000 mg/kgAcute Toxicity Comments:A greater than sym

A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable at the highest dose used in the test.

Irritation / Sensitization: (Study Type, Species, Severity)

Microcrystalline cellulose

Skin Irritation Rabbit Non-irritating Eye Irritation Rabbit Non-irritating

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Potassium clavulanate

26 Week(s) Dog Intravenous20 mg/kg/day NOAEL Liver

Clavulanic Acid/Amoxicillin Trihydrate

4 Week(s) Mouse Oral 50/500 mg/kg/day NOAEL None identified 4 Week(s) Rat Oral 50/500 mg/kg/day NOAEL None identified 28 Day(s) Dog Oral 90 mg/kg/day NOEL Gastrointestinal system 28 Week(s) Rat Oral 150 mg/kg/day NOAEL Liver, Gastrointestinal system

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Amoxicillin trihydrate

Embryo / Fetal Development Pig Oral 600 mg/kg/day NOEL Not teratogenic

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

| Environmental Overview: | Environmental properties have not been investigated. Releases to the environment should be avoided. |
|--|---|
| Toxicity: Aquatic Toxicity: (Species, Method, E | nd Point, Duration, Result) |
| Amoxicillin trihydrate Daphnia magna (Water Flea) EC50 Lepomis macrochirus (Bluegill Sunfish) Oncorhynchus mykiss (Rainbow Trout) Microcystis aeruginosa (Blue-green Alga Selenastrum capricornutum (Green Alga | EC50 96 Hours > 930 mg/L EC50 96 Hours > 1000 mg/L a) EC50 48 Hours 0.0037 mg/L |
| Persistence and Degradability: | No data available |
| Bio-accumulative Potential: | No data available |
| Mobility in Soil: | No data available |

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada - WHMIS: Classifications WHMIS hazard class: Class D, Division 2, Subdivision A

15. REGULATORY INFORMATION

Potassium clavulanate **CERCLA/SARA 313 Emission reporting** Not Listed **California Proposition 65** Not Listed **EU EINECS/ELINCS List** 262-640-9 Amoxicillin trihydrate Not Listed **CERCLA/SARA 313 Emission reporting California Proposition 65** Not Listed Australia (AICS): Present **EU EINECS/ELINCS List** Not Listed Non-hazardous ingredients Not Listed **CERCLA/SARA 313 Emission reporting California Proposition 65** Not Listed **EU EINECS/ELINCS List** Not Listed Microcrystalline cellulose **CERCLA/SARA 313 Emission reporting** Not Listed **California Proposition 65** Not Listed Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present **EU EINECS/ELINCS List** 232-674-9

16. OTHER INFORMATION

Text of R phrases and GHS Classification abbreviations mentioned in Section 3

Sensitization, respiratory-Cat.1; H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled Sensitization, skin-Cat.1; H317 - May cause an allergic skin reaction

Xn - Harmful Xi - Irritant

R42/43 - May cause sensitization by inhalation and skin contact.

| Data Sources: | The data contained in this MSDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature. |
|-----------------------|--|
| Reasons for Revision: | Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking. |
| Prepared by: | Toxicology and Hazard Communication Zoetis Global Risk Management |

Material Name: Clavamox® Tablets Revision date: 21-Aug-2013

Zoetis Inc. believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet