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

Product Identifier

Material Name: Aureomycin® 100G

Trade Name: AUREOMYCIN
Chemical Family: Tetracycline derivative

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Veterinary product used as Antibacterial

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
Zoetis Belgium S.A.
Mercuriusstraat 20
1930 Zaventem
Belgium

Product Support/Technical Services Phone: 1-800-366-5288

Emergency telephone number: Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300 International CHEMTREC (24 hours): +1-703-527-3887

Contact E-Mail: VMIPSrecords@zoetis.com

2. HAZARDS IDENTIFICATION

Appearance: Brown solid

Classification of the Substance or Mixture

GHS - Classification

Reproductive Toxicity: Category 1A

US OSHA Specific - Classification

Physical Hazard: Combustible Dust

EU Classification:

EU Indication of danger: Toxic

EU Symbol: T

EU Risk Phrases:

R61 - May cause harm to the unborn child.

Label Elements

Signal Word: Danger

Hazard Statements: May form combustible dust concentrations in air

H360 - May damage fertility or the unborn child

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Precautionary Statements: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

P405 - Store locked up

P501 - Dispose of contents/container in accordance with all local and national regulations



Other Hazards

Short Term: Exposure to sunlight following contact may result in skin reactions in rare instances. May be

harmful to aquatic organisms.

High doses of tetracyclines can cause a liver condition known as fatty liver. Individuals who Long Term:

suffer from high cholesterol, high triglycerides, or have alcoholic liver disease may be more susceptible. May produce kidney toxicity if kidney damage already exists (based on animal

data).

Known Clinical Effects: May cause permanent discoloration of teeth if used during tooth development. Symptoms of

chronic exposure to tetracyclines include redness and swelling of the skin, rash, chills, tooth discoloration, yellowing of the skin and eyes, nausea, vomiting, diarrhea, stomach pain, and chest pain. Photosensitivity has been reported in some individuals taking tetracyclines.

Australian Hazard Classification

(NOHSC):

Note:

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.

For a more detailed discussion of potential health hazards and toxicity see Section 11. Additional Information:

Hazardous Substance. Non-Dangerous Goods.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Hazardous							
Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%		
Chlortetracycline hydrochloride	64-72-2	200-591-7	Repr. Cat.1;R61	Repro Tox 1A (H360)	90-93		
Mineral oil	8012-95-1	232-384-2	Not Listed	Not Listed	*		
Calcium sulfate, dihydrate	10101-41-4	Not Listed	Not Listed	Not Listed	*		

Ingredient	CAS Number	EINECS/ELINCS	EU Classification	GHS Classification	%
		List			
Water	7732-18-5	231-791-2	Not Listed	Not Listed	*

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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 Effects, Both Acute and Delayed

Symptoms and Effects of For information on potential signs and symptoms of exposure, See Section 2 - Hazards

Exposure: Identification and/or Section 11 - Toxicological Information.

Medical Conditions None known

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Use carbon dioxide, dry chemical, or water spray.

Special Hazards Arising from the Substance or Mixture

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

Products:

Fire / Explosion Hazards: During processing, dust may form explosive mixture in air. 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 must wear appropriate protective equipment (see Section 8). Minimize exposure. Avoid dust formation.

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 / Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and

Collecting: follow appropriate grounding procedures. Contain the source of the spill if it is safe to do so. Collect spilled material by a method that controls dust generation. Clean spill area thoroughly.

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Additional Consideration for

Large Spills:

Avoid generating airborne dust. Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding procedures. Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding and bonding procedures. Avoid open handling. Minimize dust generation and accumulation. When handling, use appropriate personal protective equipment (see Section 8). 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.

Chlortetracycline hydrochloride

Zoetis OEL TWA 8-hr 0.5 mg/m³

Mineral oil

u. v	
ACGIH Threshold Limit Value (TWA)	5 mg/m ³
Australia TWA	5 mg/m ³
Belgium OEL - TWA	5 mg/m ³
Bulgaria OEL - TWA	5.0 mg/m ³
Czech Republic OEL - TWA	5 mg/m ³
Denmark OEL - TWA	1 mg/m ³
Finland OEL - TWA	5 mg/m ³
Greece OEL - TWA	5 mg/m ³
Lithuania OEL - TWA	1 mg/m ³
Netherlands OEL - TWA	5 mg/m ³
Vietnam OEL - TWAs	5 mg/m ³
OSHA - Final PELS - TWAs:	5 mg/m ³
Poland OEL - TWA	5 mg/m ³
Portugal OEL - TWA	5 mg/m ³
Romania OEL - TWA	5 mg/m ³
Slovakia OEL - TWA	5 ppm
	1 mg/m ³
	5 mg/m ³
Spain OEL - TWA	5 mg/m ³
Sweden OEL - TWAs	1 mg/m³

Calcium sulfate, dihydrate

ACGIH Threshold Limit Value (TWA) 10 mg/m³
Germany (DFG) - MAK 1.5 mg/m³
4 mg/m³

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Vietnam OEL - TWAs 6 mg/m³ Portugal OEL - TWA 10 mg/m³ 10 mg/m³ Spain OEL - TWA Switzerland OEL -TWAs 3 mg/m^3

Exposure Controls

Engineering Controls: Engineering controls should be used as the primary means to control exposures. Keep

airborne contamination levels below the exposure limits listed above in this section. General

room ventilation is adequate unless the process generates dust, mist or fumes.

Personal Protective Refer to applicable national standards and regulations in the selection and use of personal

protective equipment (PPE). **Equipment:**

Hands: 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. Eyes:

Skin: Impervious protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations.

Respiratory protection: If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate

respirator with a protection factor sufficient to control exposures to below the OEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid Color: Brown

No data available. No data available. Odor: **Odor Threshold:**

Molecular Formula: Mixture **Molecular Weight:** Mixture

No data available **Solvent Solubility:** No data available Water Solubility: pH: No data available. No data available Melting/Freezing Point (°C): **Boiling Point (°C):** No data available. Partition Coefficient: (Method, pH, Endpoint, Value)

No data available

No data available. **Decomposition Temperature (°C):**

No data available **Evaporation Rate (Gram/s):** No data available Vapor Pressure (kPa): Vapor Density (g/ml): No data available **Relative Density:** No data available Viscosity: No data available

Flammablity:

Autoignition Temperature (Solid) (°C): No data available Flammability (Solids): No data available Flash Point (Liquid) (°C): No data available **Upper Explosive Limits (Liquid) (% by Vol.):** No data available Lower Explosive Limits (Liquid) (% by Vol.): No data available Polymerization: Will not occur

10. STABILITY AND REACTIVITY

Reactivity: No data available

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10. STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal conditions of use.

Possibility of Hazardous Reactions Oxidizing Properties:

No data available

Conditions to Avoid:

Keep away from heat and other sources of ignition, including electrostatic discharge. Dust may form explosive mixture in air. Fine particles (such as dust and mists) may fuel fires/explosions.

Incompatible Materials: **Hazardous Decomposition** As a precautionary measure, keep away from strong oxidizers

No data available

Products:

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

General Information:

The information in this section describes the hazards of various forms of the active ingredient. The toxicities of the two materials can be expected to be similar. The remaining information describes the potential hazards of the individual ingredients.

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

Chlortetracycline hydrochloride

LD50 2314 mg/kg Mouse Oral Rat Oral LD50 > 3000mg/kg

Oxytetracycline hydrochloride

LD50 6696 mg/kg Mouse Oral Mouse SC > 600mg/kg LD50

Rat SC LD50 800mg/kg LD50 100mg/kg Mouse IV Rat IV LD50 302mg/kg

Acute Toxicity Comments:

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)

Mineral oil

Eye Irritation Rabbit Moderate Mild Skin Irritation Rabbit

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

Oxytetracycline hydrochloride

13 Week(s) Mouse Oral 3821 mg/kg/day **NOAEL** None identified

13 Week(s) Rat Oral 3352 mg/kg/day NOAEL Liver

12 Month(s) Dog Oral 125 mg/kg/day NOAEL Male reproductive system

24 Month(s) Dog Oral 250 mg/kg/day NOAEL None identified

14 Day(s) Oral 108 g/kg LOEL Brain

Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Oxytetracycline hydrochloride

No effects at maximum dose 2 Generation Reproductive Toxicity Rat Oral 18 mg/kg/day NOAEL

Embryo / Fetal Development NOAEL Maternal Toxicity Rat Oral 1500 mg/kg/day Embryo / Fetal Development Oral 2100 mg/kg/day NOAEL Embryotoxicity Mouse

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11. TOXICOLOGICAL INFORMATION

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Oxytetracycline hydrochloride

Bacterial Mutagenicity (Ames) Salmonella Negative

In Vitro Chromosome Aberration Chinese Hamster Ovary (CHO) cells Negative Sister Chromatid Exchange Chinese Hamster Ovary (CHO) cells Negative

Micronucleus Mouse Negative

Mammalian Cell Mutagenicity Mouse Lymphoma Positive with activation

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Oxytetracycline hydrochloride

24 Month(s) Rat Oral, in feed 150 mg/kg/day NOEL Not carcinogenic 103 Week(s) Mouse Oral, in feed 1372 mg/kg/day NOEL Not carcinogenic

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

12. ECOLOGICAL INFORMATION

Environmental Overview: The environmental characteristics of this material have not been fully evaluated. Releases to

the environment should be avoided. See aquatic toxicity data, below:

Toxicity:

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Chlortetracycline hydrochloride

Daphnia magna (Water Flea) OECD EC50 > 541.1 mg/L48 Hours Pseudokirchneriella subcapitata (Green Alga) OECD EC50 72 Hours 0.095 mg/L Oncorhynchus mykiss (Rainbow Trout) OECD LC50 96 Hours 59.5 mg/L

Oxytetracycline hydrochloride

Oncorhynchus mykiss (Rainbow Trout) **ASTM EPA** LC50 > 116 mg/L 96 Hours Daphnia magna (Water Flea) ASTM EPA EC50 48 Hours > 102 mg/L Lepomis macrochirus (Bluegill Sunfish) ASTM EPA LC50 96 Hours > 94.9 mg/LSelenastrum capricornutum (Green Alga) ISO EC50 4.18 mg/L 72 Hours

Terrestrial Toxicity: (Species, Method, End Point, Duration, Result)

Chlortetracycline hydrochloride

Eisenia foetida (Earthworm) NOEC 56 Days 1000 mg/kg

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

No data available Mobility in Soil:

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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



Chlortetracycline hydrochloride

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed
Present
200-591-7

Mineral oil

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Present

232-384-2

Water

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Not Listed
Present

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15. REGULATORY INFORMATION

Australia (AICS): Present
REACH - Annex IV - Exemptions from the Present

obligations of Register:

EU EINECS/ELINCS List 231-791-2

Calcium sulfate, dihydrate

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

16. OTHER INFORMATION

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

H360 - May damage fertility or the unborn child

T - Toxic

R61 - May cause harm to the unborn child.

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 2 - Hazard Identification. Updated Section 3 - Composition / Information on

Ingredients. Updated Section 5 - Fire Fighting Measures. Updated Section 6 - Accidental Release Measures. Updated Section 7 - Handling and Storage. Updated Section 10 - Stability and Reactivity. Updated Section 12 - Ecological Information. Updated Section 15 - Regulatory

Information.

Prepared by: Toxicology and Hazard Communication

Zoetis Global Risk Management

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
