# This SDS packet was issued with item:

078475786

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

078414899

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078414907



Revision date: 07-Dec-2006 Version: 2.1 Page 1 of 6

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Pfizer Animal Health
Pfizer Inc
Street
Pfizer Ltd,
Kent
CT13 9NJ
New York, NY 10017
Poison Control Center Phone: 1-866-531-8896
Pfizer Ltd,
Kent
CT13 9NJ
United Kingdom
+00 44 (0)1304 616161

Poison Control Center Phone: 1-866-531-8896 Technical Services Phone: 1-800-366-5288

Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300

Emergency telephone number:

ChemSafe (24 hours): +44 (0)208 762 8322

Material Name: Trimethoprim and Sulfadiazine Powder (Animal Health)

Trade Name: TUCOPRIM(R), UNIPRIM(R)

Chemical Family: Mixture

Intended Use: Veterinary product used as antibiotic agent

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Hazardous**

Ingredient	CAS Number	<b>EU EINECS List</b>	%
Trimethoprim	738-70-5	212-006-2	7
Calcium carbonate	471-34-1	207-439-9	*
Sulfadiazine	68-35-9	200-685-8	33

Additional Information: \* Proprietary

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

safety.

## 3. HAZARDS IDENTIFICATION

**Appearance:** White to off-white powder

Signal Word: WARNING

Statement of Hazard: Harmful if swallowed.

Possible risk of harm to the unborn child

**Additional Hazard Information:** 

**Short Term:** Harmful if swallowed (based on animal data).

Known Clinical Effects: Adverse effects associated with the therapeutic use include nausea, diarrhea, blood cell

changes, muscle pain, skin rash, Stevens Johnson Syndrome (epidermal necrosis and exfoliative dermatitis), kidney toxicity (nephrotoxicity). Clinical use has resulted in changes in electrolytes and/or blood chemistry changes. Individuals sensitive to this material or other

materials in its chemical class may develop allergic reactions.

EU Indication of danger: Harmful

Toxic to Reproduction; Category 3

## **EU Hazard Symbols:**



Material Name: Trimethoprim and Sulfadiazine Powder Page 2 of 6

(Animal Health)

Revision date: 07-Dec-2006 Version: 2.1

**EU Risk Phrases:** 

R22 - Harmful if swallowed.

R63 - Possible risk of harm to the unborn child.

**Note:** This document has been prepared in accordance with standards for workplace safety, which

require the inclusion of all known hazards of the active substance or its intermediates 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.

## 4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get

medical attention.

**Skin Contact:** Remove clothing and wash affected skin with soap and water. If irritation occurs or persists,

get medical attention.

**Ingestion:** Get medical attention. Do not induce vomiting unless directed by medical personnel. Never

give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

#### 5. FIRE FIGHTING MEASURES

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

Hazardous Combustion Products: Emits fumes of carbon dioxide sulfur oxides, nitrogen oxides.

Fire Fighting Procedures: During all fire fighting activities, wear appropriate protective equipment, including self-

contained breathing apparatus.

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

## 6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions: Personnel involved in clean-up should wear appropriate personal protective equipment (see

Section 8). Minimize exposure.

**Measures for Cleaning / Collecting:** Contain the source of spill if it is safe to do so. Collect spilled material by a method that

controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of

dry solids. Clean spill area thoroughly.

Measures for Environmental

**Protections:** 

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

avoid environmental release.

**Additional Consideration for Large** 

Spills:

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

**General Handling:** Avoid breathing dust. Avoid contact with eyes, skin and clothing. Minimize dust generation

and accumulation. Wash thoroughly after handling. Use with adequate ventilation.

Storage Conditions: Store as directed by product packaging.

Material Name: Trimethoprim and Sulfadiazine Powder Page 3 of 6

(Animal Health)

Revision date: 07-Dec-2006 Version: 2.1

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Trimethoprim** 

Pfizer OEL TWA-8 Hr: 0.1mg/m<sup>3</sup>

Calcium carbonate

OSHA - Final PELS - TWAs: = 15 mg/m<sup>3</sup> TWA total

 $= 5 \text{ mg/m}^3 \text{ TWA}$ 

ACGIH Threshold Limit Value (TWA) = 10 mg/m³ TWA particulate matter containing no asbestos and

<1% crystalline silica

ACGIH OELs - Notice of Intended Changes Listed

Australia TWA = 10 mg/m<sup>3</sup> TWA

Sulfadiazine

Pfizer OEL TWA-8 Hr: 2 mg/m<sup>3</sup>

Analytical Method: Analytical method available for sulfadiazine; trimethoprim. Contact Pfizer Inc for further

information.

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

**Personal Protective Equipment:** 

**Hands:** Wear impervious gloves. **Eyes:** Safety glasses or goggles

**Skin:** Wear protective clothing with long sleeves to avoid skin contact. Wash hands and arms

thoroughly after handling this product.

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: Powder Color: White to off-white

Molecular Formula: Mixture Molecular Weight: Mixture

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of use.

**Conditions to Avoid:** Fine particles (such as dust and mists) may fuel fires/explosions. **Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers.

#### 11. TOXICOLOGICAL INFORMATION

General Information: The information included in this section describes the potential hazards of the individual

ingredients.

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

Calcium carbonate

Page 4 of 6

Material Name: Trimethoprim and Sulfadiazine Powder

(Animal Health)

Revision date: 07-Dec-2006 Version: 2.1

Rat Oral LD50 6450 mg/kg

**Trimethoprim** 

Rat Oral LD50 200 mg/kg

Rat Intraperitoneal LD50 500 mg/kg

Mouse Oral LD50 2764 mg/kg

Mouse Intravenous LD50 200 mg/kg

Mouse Intraperitoneal LD50 1870 mg/kg

**Sulfadiazine** 

Mouse Oral LD 50 1500 mg/kg

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

**Trimethoprim** 

Reproductive & Fertility-Males Rat Oral 70 mg/kg/day **NOAEL** Fertility Reproductive & Fertility - Females Rat Oral 14 mg/kg/day NOAEL Fertility Embryo / Fetal Development Rabbit Oral 30 mg/kg LOAEL Embryotoxicity Embryo / Fetal Development Oral Maternal Toxicity, Teratogenic 200 mg/kg LOAEL Rat

Embryo / Fetal Development Mouse Oral 70 mg/kg NOAEL Not Teratogenic

**Sulfadiazine** 

Embryo / Fetal Development Rat Oral 500 mg/kg/day **NOEL** Not teratogenic Embryo / Fetal Development Mouse Oral **NOEL** 500 mg/kg/day Not Teratogenic Reproductive & Fertility Rabbit Oral 250 mg/kg/day NOEL Not Teratogenic

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

**Trimethoprim** 

Bacterial Mutagenicity (Ames) Salmonella , E. coli Negative
In Vitro Chromosome Aberration Chinese Hamster Ovary (CHO) cells Negative

In Vitro Chromosome Aberration Human Lymphocytes Negative

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 thoroughly investigated. Releases to the environment

should be avoided.

13. DISPOSAL CONSIDERATIONS

**Disposal Procedures:** Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

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

Material Name: Trimethoprim and Sulfadiazine Powder Page 5 of 6

(Animal Health)

Revision date: 07-Dec-2006 Version: 2.1

## 15. REGULATORY INFORMATION

EU Symbol: Xn EU Indication of danger: Harmful

Toxic to Reproduction; Category 3

**EU Risk Phrases:** 

R22 - Harmful if swallowed.

R63 - Possible risk of harm to the unborn child.

**EU Safety Phrases:** 

S22 - Do not breathe dust.

S36/37 - Wear suitable protective clothing and gloves.

**OSHA Label:** 

**WARNING** 

Harmful if swallowed.

Possible risk of harm to the unborn child

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision A



**Trimethoprim** 

Australia (AICS):PresentStandard for the Uniform SchedulingSchedule 4

for Drugs and Poisons:

EU EINECS List 212-006-2

Calcium carbonate

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

Australia (AICS):

Fresent

EU EINECS List

207-439-9

Sulfadiazine

Inventory - United States TSCA - Sect. 8(b)PresentAustralia (AICS):PresentStandard for the Uniform SchedulingSchedule 4for Drugs and Poisons:Schedule 5EU EINECS List200-685-8

Material Name: Trimethoprim and Sulfadiazine Powder Page 6 of 6

(Animal Health)

Revision date: 07-Dec-2006 Version: 2.1

# **16. OTHER INFORMATION**

**Reasons for Revision:** Updated Section 3 - Hazard Identification. Updated Section 6 - Accidental Release Measures.

Updated Section 8 - Exposure Controls / Personal Protection.

Prepared by: Toxicology and Hazard Communication

Pfizer Global Environment, Health, and Safety

Pfizer 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.

**End of Safety Data Sheet** 



Revision date: 13-Mar-2014 Version: 3.0 Page 1 of 9

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

**Product Identifier** 

Material Name: Trimethoprim and Sulfadiazine Powder (Animal Health)

Trade Name: TUCOPRIM(R), UNIPRIM(R)

Chemical Family: 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

Zoetis Belgium S.A. Mercuriusstraat 20 1930 Zaventem

**Belgium** 

Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300

Contact E-Mail: VMIPSrecords@zoetis.com

Emergency telephone number:

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

## 2. HAZARDS IDENTIFICATION

**Appearance:** White to off-white powder

**Classification of the Substance or Mixture** 

**GHS - Classification** 

Acute Oral Toxicity: Category 4
Reproductive Toxicity: Category 2

**US OSHA Specific - Classification** 

Physical Hazard: Combustible Dust

**EU Classification:** 

EU Indication of danger: Harmful

Toxic to Reproduction: Category 3

EU Symbol: Xn

EU Risk Phrases:

R22 - Harmful if swallowed.

R63 - Possible risk of harm to the unborn child.

**Label Elements** 

Signal Word: Warning

Hazard Statements: H302 - Harmful if swallowed

H361 - Suspected of damaging fertility or the unborn child

May form combustible dust concentrations in air

Material Name: Trimethoprim and Sulfadiazine Powder

(Animal Health)

Revision date: 13-Mar-2014 Version: 3.0

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

P264 - Wash hands thoroughly after handling

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

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

P301+ P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel

Page 2 of 9

unwell

P330 - Rinse mouth

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:

**Known Clinical Effects:** 

Dust may cause irritation

Adverse effects associated with therapeutic use include nausea, diarrhea, blood cell changes, muscle pain, skin rash, Stevens Johnson Syndrome (epidermal necrosis and exfoliative dermatitis), kidney toxicity (nephrotoxicity). Clinical use has resulted in changes in electrolytes and/or blood chemistry changes. Individuals sensitive to this material or other materials in its chemical class may develop allergic reactions.

Australian Hazard Classification (NOHSC):

Hazardous Substance. Non-Dangerous Goods.

Note:

This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning 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	<b>EU Classification</b>	GHS	%
		EINECS/ELINCS		Classification	
		List			I
Calcium carbonate	471-34-1	207-439-9	Not Listed	Not Listed	*
Sulfadiazine	68-35-9	200-685-8	Xn;R22	Acute Tox. 4,H302	33
Trimethoprim	738-70-5	212-006-2	T;R25	Acute Tox. Cat. 3	7
			Repr.Cat.3;R63	(H301)	
				Repro. Tox. Cat. 2	
				(H361)	

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

Material Name: Trimethoprim and Sulfadiazine Powder Page 3 of 9

(Animal Health)

Revision date: 13-Mar-2014 Version: 3.0

# 4. FIRST AID MEASURES

**Description of First Aid Measures** 

Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention **Eve Contact:** 

immediately.

**Skin Contact:** Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not Ingestion:

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

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

**Medical Conditions** Breathing dust may worsen asthma symptoms.

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

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** 

**Products:** 

Formation of toxic gases is possible during heating or fire.

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions. Dust can form an explosive

mixture in air.

**Advice for Fire-Fighters** 

Wear approved positive pressure, self-contained breathing apparatus and full protective turn out gear.

# 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. 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 /

Collecting:

Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and 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. Wipe up with a damp cloth and place in container for disposal. Clean contaminated surface thoroughly.

Material Name: Trimethoprim and Sulfadiazine Powder Page 4 of 9

(Animal Health)

Revision date: 13-Mar-2014 Version: 3.0

**Additional Consideration for** 

Large Spills:

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 contact with eyes, skin and clothing. Avoid breathing dust. Minimize dust generation and accumulation. Use with adequate ventilation. Wash thoroughly after handling. Prevent environmental releases. Use appropriate personal protective equipment.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store at room temperature in properly labeled containers. Keep away from heat, sparks and

flames.

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.

Calcium carbonate

 Australia TWA
 10 mg/m³

 Bulgaria OEL - TWA
 10.0 mg/m³

 France OEL - TWA
 10 mg/m³

 Latvia OEL - TWA
 6 mg/m³

 Vietnam OEL - TWAs
 10 mg/m³

 Poland OEL - TWA
 10 mg/m³

 Portugal OEL - TWA
 10 mg/m³

Sulfadiazine

**Zoetis OEL TWA 8-hr** 2 mg/m³ Lithuania OEL - TWA 1 mg/m³

**Trimethoprim** 

**Zoetis OEL TWA 8-hr** 100 μg/m<sup>3</sup>

**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 Equipment:

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

protective equipment (PPE).

**Hands:** Wear impervious gloves if skin contact is possible.

Eyes: Safety glasses or goggles

Skin: Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and

laboratory areas.

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.

Material Name: Trimethoprim and Sulfadiazine Powder Page 5 of 9

(Animal Health)

Revision date: 13-Mar-2014 Version: 3.0

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Powder White to off-white **Physical State:** Color: 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: No data available. pH: No data available **Melting/Freezing Point (°C): Boiling Point (°C):** No data available. Partition Coefficient: (Method, pH, Endpoint, Value)

No data available Sulfadiazine

Predicted 7 -0.68 Log D

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

**Evaporation Rate (Gram/s):** No data available Vapor Pressure (kPa): No data available 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 No data available Flash Point (Liquid) (°C): Upper Explosive Limits (Liquid) (% by Vol.): No data available No data available Lower Explosive Limits (Liquid) (% by Vol.):

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Stable under normal conditions of use. **Chemical Stability:** 

**Possibility of Hazardous Reactions** 

**Oxidizing Properties:** No data available

**Conditions to Avoid:** Fine particles (such as dust and mists) may fuel fires/explosions. Keep away from heat, spark,

flames and all other sources of ignition.

**Incompatible Materials:** 

**Hazardous Decomposition** 

Products:

As a precautionary measure, keep away from strong oxidizers No data available

# 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

**General Information:** Toxicological properties of the formulation have not been fully investigated. The information

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

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

Calcium carbonate

Material Name: Trimethoprim and Sulfadiazine Powder Page 6 of 9

(Animal Health)

Revision date: 13-Mar-2014 Version: 3.0

# 11. TOXICOLOGICAL INFORMATION

Rat Oral LD50 6450 mg/kg

## Trimethoprim

Rat Oral LD50 200 mg/kg Sub-tenon injection (eye) LD50 500mg/kg 2764mg/kg Mouse Oral LD50 Mouse Intravenous LD50 200mg/kg Mouse Intraperitoneal LD50 1870mg/kg

#### **Sulfadiazine**

Mouse Oral LD 50 1500 mg/kg

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

#### **Trimethoprim**

Reproductive & Fertility-Males Rat Oral 70 mg/kg/day NOAEL Fertility Reproductive & Fertility - Females Rat Oral 14 mg/kg/day NOAEL Fertility Embryo / Fetal Development Rabbit Oral 30 mg/kg LOAEL **Embryotoxicity** Embryo / Fetal Development Rat Oral 200 mg/kg LOAEL Maternal Toxicity, Teratogenic Embryo / Fetal Development Oral 70 mg/kg NOAEL Not Teratogenic Mouse

#### Sulfadiazine

Embryo / Fetal Development Rat Oral 500 mg/kg/day NOEL Not teratogenic Embryo / Fetal Development Mouse Oral 500 mg/kg/day **NOEL** Not Teratogenic Reproductive & Fertility Rabbit Oral 250 mg/kg/day NOEL Not Teratogenic

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

#### Trimethoprim

Bacterial Mutagenicity (Ames) Salmonella , E. coli Negative
In Vitro Chromosome Aberration Chinese Hamster Ovary (CHO) cells Negative
In Vitro Chromosome Aberration Human Lymphocytes Negative

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

Material Name: Trimethoprim and Sulfadiazine Powder Page 7 of 9

(Animal Health)

Revision date: 13-Mar-2014 Version: 3.0

# 12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been thoroughly investigated. Releases to the environment

should be avoided.

**Toxicity:** 

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

Trimethoprim

Daphnia magna (Water Flea) OECD LC50 48 Hours 141 mg/L

**Sulfadiazine** 

Selenastrum capricornutum (Green Alga) OECD EC50 72 Hours 3.43 mg/L Daphnia magna (Water Flea) OECD EC50 48 Hours 212-221 mg/L

Oncorhynchus mykiss (Rainbow Trout) OECD LC50 96 Hours 103.0 mg/L

Persistence and Degradability: No data available

**Bio-accumulative Potential:** 

Sulfadiazine

No data available

Predicted 7 Log D -0.68

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

Material Name: Trimethoprim and Sulfadiazine Powder Page 8 of 9

(Animal Health)

Revision date: 13-Mar-2014 Version: 3.0

# 15. REGULATORY INFORMATION

Canada - WHMIS: Classifications WHMIS hazard class:

Class D, Division 2, Subdivision A



#### Calcium carbonate

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not

## Sulfadiazine

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Standard for the Uniform Scheduling
for Drugs and Poisons:

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

Not Listed

Present

Schedule 4

Schedule 5

Schedule 5

#### **Trimethoprim**

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Standard for the Uniform Scheduling
for Drugs and Poisons:

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

Schedule 4

1000 Schedule 4

# **16. OTHER INFORMATION**

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

H302 - Harmful if swallowed

H301 - Toxic if swallowed

H361 - Suspected of damaging fertility or the unborn child

Xn - Harmful

T - Toxic

Toxic to Reproduction: Category 3

R22 - Harmful if swallowed.

R25 - Toxic if swallowed.

R63 - Possible risk of 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.

Material Name: Trimethoprim and Sulfadiazine Powder Page 9 of 9

(Animal Health)

Revision date: 13-Mar-2014 Version: 3.0

Reasons for Revision: Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking.

Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on Ingredients. Updated Section 4 - First Aid Measures. Updated Section 5 - Fire Fighting Measures. Updated Section 6 - Accidental Release Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 10 - Stability and Reactivity. Updated Section 11 - Toxicology Information. 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 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** 

\_\_\_\_\_



Revision date: 13-Mar-2014 Version: 3.0 Page 1 of 9

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

**Product Identifier** 

Material Name: Trimethoprim and Sulfadiazine Powder (Animal Health)

Trade Name: TUCOPRIM(R), UNIPRIM(R)

Chemical Family: 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

Zoetis Belgium S.A. Mercuriusstraat 20 1930 Zaventem

**Belgium** 

Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300

Contact E-Mail: VMIPSrecords@zoetis.com

Emergency telephone number:

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

## 2. HAZARDS IDENTIFICATION

**Appearance:** White to off-white powder

**Classification of the Substance or Mixture** 

**GHS - Classification** 

Acute Oral Toxicity: Category 4
Reproductive Toxicity: Category 2

**US OSHA Specific - Classification** 

Physical Hazard: Combustible Dust

**EU Classification:** 

EU Indication of danger: Harmful

Toxic to Reproduction: Category 3

EU Symbol: Xn

EU Risk Phrases:

R22 - Harmful if swallowed.

R63 - Possible risk of harm to the unborn child.

**Label Elements** 

Signal Word: Warning

Hazard Statements: H302 - Harmful if swallowed

H361 - Suspected of damaging fertility or the unborn child

May form combustible dust concentrations in air

Material Name: Trimethoprim and Sulfadiazine Powder Page 2 of 9

(Animal Health)

Revision date: 13-Mar-2014 Version: 3.0

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

P264 - Wash hands thoroughly after handling

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

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

P301+ P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel

unwell

P330 - Rinse mouth

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:** 

**Known Clinical Effects:** 

Dust may cause irritation

Adverse effects associated with therapeutic use include nausea, diarrhea, blood cell changes, muscle pain, skin rash, Stevens Johnson Syndrome (epidermal necrosis and exfoliative dermatitis), kidney toxicity (nephrotoxicity). Clinical use has resulted in changes in electrolytes and/or blood chemistry changes. Individuals sensitive to this material or other materials in its chemical class may develop allergic reactions.

Hazardous Substance. Non-Dangerous Goods.

**Australian Hazard Classification** (NOHSC):

This document has been prepared in accordance with standards for workplace safety, which

requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning 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

Note:

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Calcium carbonate	471-34-1	207-439-9	Not Listed	Not Listed	*
Sulfadiazine	68-35-9	200-685-8	Xn;R22	Acute Tox. 4,H302	33
Trimethoprim	738-70-5	212-006-2	T;R25 Repr.Cat.3;R63	Acute Tox. Cat. 3 (H301) Repro. Tox. Cat. 2 (H361)	7

Additional Information: \* Proprietary

TRIMETHOPRIM AND SULFADIAZINE POWDER

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

Material Name: Trimethoprim and Sulfadiazine Powder Page 3 of 9

(Animal Health)

Revision date: 13-Mar-2014 Version: 3.0

# 4. FIRST AID MEASURES

**Description of First Aid Measures** 

Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention **Eve Contact:** 

immediately.

**Skin Contact:** Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not Ingestion:

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

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

**Medical Conditions** Breathing dust may worsen asthma symptoms.

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

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** 

**Products:** 

Formation of toxic gases is possible during heating or fire.

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions. Dust can form an explosive

mixture in air.

**Advice for Fire-Fighters** 

Wear approved positive pressure, self-contained breathing apparatus and full protective turn out gear.

# 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. 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 /

Collecting:

Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and 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. Wipe up with a damp cloth

and place in container for disposal. Clean contaminated surface thoroughly.

Material Name: Trimethoprim and Sulfadiazine Powder Page 4 of 9

(Animal Health)

Revision date: 13-Mar-2014 Version: 3.0

**Additional Consideration for** 

Large Spills:

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 contact with eyes, skin and clothing. Avoid breathing dust. Minimize dust generation and accumulation. Use with adequate ventilation. Wash thoroughly after handling. Prevent environmental releases. Use appropriate personal protective equipment.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store at room temperature in properly labeled containers. Keep away from heat, sparks and

flames.

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.

Calcium carbonate

 Australia TWA
 10 mg/m³

 Bulgaria OEL - TWA
 10.0 mg/m³

 France OEL - TWA
 10 mg/m³

 Latvia OEL - TWA
 6 mg/m³

 Vietnam OEL - TWAs
 10 mg/m³

 Poland OEL - TWA
 10 mg/m³

 Portugal OEL - TWA
 10 mg/m³

Sulfadiazine

**Zoetis OEL TWA 8-hr** 2 mg/m³ Lithuania OEL - TWA 1 mg/m³

**Trimethoprim** 

**Zoetis OEL TWA 8-hr** 100 μg/m<sup>3</sup>

**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 Equipment:

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

protective equipment (PPE).

**Hands:** Wear impervious gloves if skin contact is possible.

Eyes: Safety glasses or goggles

Skin: Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and

laboratory areas.

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.

Material Name: Trimethoprim and Sulfadiazine Powder Page 5 of 9

(Animal Health)

Revision date: 13-Mar-2014 Version: 3.0

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:PowderColor:White to off-whiteOdor:No data available.Odor Threshold:No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility:
Water Solubility:
PH:
No data available
No data available
No data available.
No data available.
No data available.
No data available
No data available
Partition Coefficient: (Method, pH, Endpoint, Value)

No data available **Sulfadiazine** 

Predicted 7 Log D -0.68

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

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

Flammablity:

Autoİgnition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

No data available
No data available
No data available

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

**Possibility of Hazardous Reactions** 

Oxidizing Properties: No data available

Conditions to Avoid: Fine particles (such as dust and mists) may fuel fires/explosions. Keep away from heat, spark,

flames and all other sources of ignition.

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

Hazardous Decomposition No data available

**Products:** 

# 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

**General Information:** Toxicological properties of the formulation have not been fully investigated. The information

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

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

Calcium carbonate

Material Name: Trimethoprim and Sulfadiazine Powder Page 6 of 9

(Animal Health)

Revision date: 13-Mar-2014 Version: 3.0

# 11. TOXICOLOGICAL INFORMATION

Rat Oral LD50 6450 mg/kg

## Trimethoprim

Rat Oral LD50 200 mg/kg Sub-tenon injection (eye) LD50 500mg/kg Mouse Oral LD50 2764mg/kg Mouse Intravenous LD50 200mg/kg Mouse Intraperitoneal LD50 1870mg/kg

#### **Sulfadiazine**

Mouse Oral LD 50 1500 mg/kg

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

#### **Trimethoprim**

Reproductive & Fertility-Males Rat Oral 70 mg/kg/day NOAEL Fertility Reproductive & Fertility - Females Rat Oral 14 mg/kg/day NOAEL Fertility Embryo / Fetal Development Rabbit Oral 30 mg/kg LOAEL **Embryotoxicity** Embryo / Fetal Development Rat Oral 200 mg/kg LOAEL Maternal Toxicity, Teratogenic Embryo / Fetal Development Oral 70 mg/kg NOAEL Not Teratogenic Mouse

#### **Sulfadiazine**

Embryo / Fetal Development Rat Oral 500 mg/kg/day NOEL Not teratogenic Embryo / Fetal Development Mouse Oral 500 mg/kg/day **NOEL** Not Teratogenic Reproductive & Fertility Rabbit Oral 250 mg/kg/day NOEL Not Teratogenic

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

#### Trimethoprim

Bacterial Mutagenicity (Ames) Salmonella , E. coli Negative
In Vitro Chromosome Aberration Chinese Hamster Ovary (CHO) cells Negative
In Vitro Chromosome Aberration Human Lymphocytes Negative

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

Material Name: Trimethoprim and Sulfadiazine Powder Page 7 of 9

(Animal Health)

Revision date: 13-Mar-2014 Version: 3.0

# 12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been thoroughly investigated. Releases to the environment

should be avoided.

**Toxicity:** 

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

Trimethoprim

Daphnia magna (Water Flea) OECD LC50 48 Hours 141 mg/L

**Sulfadiazine** 

Selenastrum capricornutum (Green Alga) OECD EC50 72 Hours 3.43 mg/L Daphnia magna (Water Flea) OECD EC50 48 Hours 212-221 mg/L

Oncorhynchus mykiss (Rainbow Trout) OECD LC50 96 Hours 103.0 mg/L

Persistence and Degradability: No data available

**Bio-accumulative Potential:** 

**Sulfadiazine** 

No data available

Predicted 7 Log D -0.68

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

Material Name: Trimethoprim and Sulfadiazine Powder Page 8 of 9

(Animal Health)

Revision date: 13-Mar-2014 Version: 3.0

# 15. REGULATORY INFORMATION

Canada - WHMIS: Classifications WHMIS hazard class:

Class D, Division 2, Subdivision A



#### Calcium carbonate

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not

#### **Sulfadiazine**

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Standard for the Uniform Scheduling
for Drugs and Poisons:

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

Not Listed

Present

Schedule 5

Schedule 5

200-685-8

#### **Trimethoprim**

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Standard for the Uniform Scheduling
for Drugs and Poisons:

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

Schedule 4

1000 Schedule 4

1000 Schedule 4

1000 Schedule 4

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# **16. OTHER INFORMATION**

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

H302 - Harmful if swallowed

H301 - Toxic if swallowed

H361 - Suspected of damaging fertility or the unborn child

Xn - Harmful

T - Toxic

Toxic to Reproduction: Category 3

R22 - Harmful if swallowed.

R25 - Toxic if swallowed.

R63 - Possible risk of 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.

Material Name: Trimethoprim and Sulfadiazine Powder Page 9 of 9

(Animal Health)

Revision date: 13-Mar-2014 Version: 3.0

Reasons for Revision: Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking.

Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on Ingredients. Updated Section 4 - First Aid Measures. Updated Section 5 - Fire Fighting Measures. Updated Section 6 - Accidental Release Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 10 - Stability and Reactivity. Updated Section 11 - Toxicology Information. 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 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**