This SDS packet was issued with item:

078945553

N/A



Revision date: 12-Feb-2015 Version: 2.1 Page 1 of 10

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

Product Identifier

Material Name: Neomycin Sulfate with Tetracaine Hydrochloride Topical Powder

NEO-PREDEF(R) with TETRACAINE POWDER **Trade Name:**

Chemical Family: Not determined

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

Veterinary product used as antibiotic agent, anti-inflammatory, anesthetic agent Intended Use:

Restrictions on Use: Not for human use

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: Emergency telephone number:

1-866-531-8896 (24 hrs.) Telephone: 1-800-366-5288

VMIPSrecords@zoetis.com **Contact E-Mail:**

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

2. HAZARDS IDENTIFICATION

Appearance: White powder

Classification of the Substance or Mixture

GHS - Classification

Respiratory Sensitization: Category 1 Skin Sensitization: Category 1 Reproductive Toxicity: Category 2

US OSHA Specific - Classification

Physical Hazard: Combustible Dust

EU Classification:

EU Indication of danger: Not classified

Label Elements

Signal Word: Danger

Hazard Statements: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317 - May cause an allergic skin reaction H361d - Suspected of damaging the unborn child May form combustible dust concentrations in air

Material Name: Neomycin Sulfate with Tetracaine

Hydrochloride Topical Powder Revision date: 12-Feb-2015

Revision date: 12-Feb-2015 Version: 2.1

Precautionary Statements: P201 - Obtain special instructions before use

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

Page 2 of 10

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

P240 - Ground/Bond container and receiving equipment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

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

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

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

P362 - Take off contaminated clothing and wash before reuse

P304 + P340 - IF INHALED: Remove victim 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

P405 - Store locked up

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



Other Hazards

Short Term:

Individuals sensitive to this chemical or other materials in its chemical class may develop allergic reactions.

Long Term:

Repeat-dose studies in animals have shown a potential to cause adverse effects on the

developing fetus.

Known Clinical Effects:

The most common adverse effects reported with clinical use were diarrhea, nausea, rash, and vomiting. Individuals sensitive to this material or other materials in its chemical class may develop allergic reactions. Clinical use of this drug has caused kidney dysfunction effects on hearing decrease in blood pressure (hypotension) nervousness blurred vision anxiety drowsiness convulsion respiratory arrest Drugs of this class may cause Cushing's syndrome, manifested by moon face, obesity, headache, acne, thirst, increased urination, impotence, menstrual irregularities, facial hair growth, and mental changes.

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 EINECS/ELINCS List	EU Classification	GHS Classification	%
Tetracaine Hydrochloride	136-47-0	205-248-5	T; R25	Acute Tox. Cat 3 (H301)	0.5

Material Name: Neomycin Sulfate with Tetracaine Page 3 of 10

Hydrochloride Topical Powder Revision date: 12-Feb-2015

Revision date: 12-Feb-2015 Version: 2.1

3. COMPOSITION/INFORMATION ON INGREDIENTS								
Neomycin Sulfate	1405-10-3	215-773-1	Xn;R42/43 Repr.Cat.3;R63	Resp. Sens. 1 (H334) Skin Sens.1(H317) Repro. 2 (H361) Aq. Acute 3 (H402) Aq. Chronic 3 (H412)	0.5			
Isoflupredone Acetate	338-98-7	206-423-9	Repr.Cat.3;R63	Repr. 2 (H361d)	0.1			
Myristyl-gamma-picolinium chloride	2748-88-1	220-387-1	Xn;R22	Acute Tox.3 (H301)	0.02			

Ingredient	CAS Number	EU EINECS/ELINCS	EU Classification	GHS Classification	%
		List			
Lactose hydrous	64044-51-5	Not Listed	Not Listed	Not Listed	*

Additional Information: * Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this

mixture has been withheld as a trade secret.

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: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

irritation occurs or persists, get medical attention.

Skin Contact: If irritation occurs or persists, get medical attention. Remove clothing and wash affected skin

with soap and water.

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

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion May emit toxic fumes of oxides of carbon and nitrogen.

Products:

Material Name: Neomycin Sulfate with Tetracaine Page 4 of 10

Hydrochloride Topical Powder Revision date: 12-Feb-2015

Revision date: 12-Feb-2015 Version: 2.1

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

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 /

Collecting:

Contain the source of the spill if it is safe to do so. Avoid generating airborne dust. Collect spilled material by a method that controls dust generation. Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding procedures. Use non-combustible absorbent material to wipe up spill and place in a sealed container for disposal. Clean contaminated surface thoroughly.

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

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. 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. Keep away from heat, sparks, flame, and other

sources of ignition.

Specific end use(s): Veterinary antibiotic agent, anti-inflammatory, anesthetic agent

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

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

Neomycin Sulfate

Zoetis OEL TWA 8-hr 100 μg/m³, Sensitizer

Isoflupredone Acetate

Zoetis OEL TWA 8-hr 1μg/m³, Contact Hazards Unknown

Exposure Controls

Material Name: Neomycin Sulfate with Tetracaine Page 5 of 10

Hydrochloride Topical Powder

Revision date: 12-Feb-2015 Version: 2.1

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).

Equipment:

Hands:

Impervious, disposable gloves (double suggested) 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:

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

possible and for bulk processing operations.

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Powder White **Physical State:** Color:

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

Molecular Weight: Molecular Formula: Mixture Mixture

No data available **Solvent Solubility:** Water Solubility: No data available Solubility: Soluble: Water No data available. Melting/Freezing Point (°C): No data available No data available. **Boiling Point (°C):**

Partition Coefficient: (Method, pH, Endpoint, Value)

No data available **Neomycin Sulfate**

Predicted 7.4 Log D 1.20

Isoflupredone Acetate

Predicted 7.4 Log D 2.46 Myristyl-gamma-picolinium chloride Predicted 7.4 Log D 1.30

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

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 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

10. STABILITY AND REACTIVITY

No data available Reactivity:

Material Name: Neomycin Sulfate with Tetracaine Page 6 of 10

Hydrochloride Topical Powder Revision date: 12-Feb-2015

10. STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal conditions of use.

Possibility of Hazardous Reactions

Oxidizing Properties:

None

Conditions to Avoid:

Keep away from heat, spark, flames and all other sources of ignition. Avoid dispersion as a

dust cloud. Dust may form explosive mixture in air. Fine particles (such as dust and mists)

may fuel fires/explosions.

Incompatible Materials:

As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition Products:

Thermal decomposition products may include carbon monoxide, carbon dioxide and other toxic

vapors.

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

General Information:

Toxicological properties of the formulation have not been investigated. The information in this section describes the potential hazards of the individual ingredients and the formulation.

Routes of exposure: inhalation, eye contact, skin contact

Symptoms of exposure may include (but may not be limited to) the following: skin irritation (redness, itching, swelling), allergic skin reaction (redness/rash, itching, swelling), allergic respiratory reaction (difficulty breathing, wheezing); adverse effects on fertility and/or the

unborn child after repeated overexposure.

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

Neomycin Sulfate

Rat Oral LD 50 2750 mg/kg Mouse Oral LD 50 2880mg/kg

Mouse Intraperitoneal LD 50 116mg/kg Subcutaneous LD 50 633mg/kg

Mouse Subcutaneous LD 50 275ma/ka

Tetracaine Hydrochloride

Mouse Oral LD 50 160 mg/kg

Rat Sub-tenon injection (eye) LD 50 23.5mg/kg

Subcutaneous LD 50 24mg/kg

Isoflupredone Acetate

LD50 Mouse IP > 1000 mg/kg

Myristyl-gamma-picolinium chloride

Oral LD 50 250 mg/kg

Rat Para-periosteal LD50 30mg/kg Rat Intraperitoneal LD50 7500ug/kg Subcutaneous LD50 200mg/kg

A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable **Acute Toxicity Comments:**

at the highest dose used in the test.

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

Neomycin Sulfate

ZT00549

Skin Irritation Rabbit Moderate Eye Irritation Rabbit Minimal

Version: 2.1

Page 7 of 10

Material Name: Neomycin Sulfate with Tetracaine

Hydrochloride Topical Powder Revision date: 12-Feb-2015

Revision date: 12-Feb-2015 Version: 2.1

11. TOXICOLOGICAL INFORMATION

Skin Sensitization Positive

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

Neomycin Sulfate

6 Week(s) Dog Oral 100 mg/kg/day NOAEL No effects at maximum dose

3 Month(s) Guinea Pig Oral 10 mg/kg/day NOAEL No effects at maximum dose

3 Month(s) Dog Subcutaneous 20 mg/kg/day LOAEL Kidnev 12 Month(s) NOAEL Blood forming organs Cat Oral 12 mg/kg/day 3 Month(s) Subcutaneous 10 mg/kg/day LOAEL Guinea Pig Kidney

Isoflupredone Acetate

21 Day(s) Rat Oral10 mg/kg/day LOAEL Liver, Male reproductive system, Thymus

90 Day(s) Rat Oral 0.2 mg/kg/day NOAEL None identified

Myristyl-gamma-picolinium chloride

60 Day(s) Rat Oral 2400 mg/kg Death

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

Neomycin Sulfate

Reproductive & Fertility Mouse Oral 4000 mg/L NOAEL No effects at maximum dose 2 Generation Reproductive Toxicity Rat Oral 25 mg/kg/day NOAEL Fetotoxicity Reproductive & Fertility Rat Oral 25 mg/kg/day NOAEL No effects at maximum dose

Prenatal & Postnatal Development Rat Subcutaneous 6 mg/kg/day LOAEL Developmental toxicity

Isoflupredone Acetate

Embryo / Fetal Development Rat Oral0.1 mg/kg/day NOAEL Maternal toxicity, Fetotoxicity, Not teratogenic 2 Generation Reproductive Toxicity Rat Oral 1 mg/kg/day NOAEL Fetotoxicity

Reproductive & Fertility Cow Intramuscular 20 mg/kg/day LOEL Fetotoxicity

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

Neomycin Sulfate

Bacterial Mutagenicity (Ames) Salmonella, E. coli Negative

Mammalian Cell Mutagenicity Chinese Hamster Ovary (CHO) cells Negative

In Vivo Cytogenetics Mouse Negative

In Vitro Chromosome Aberration Human Lymphocytes Positive

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

Neomycin Sulfate

oral

ZT00549

2 Year(s) Rat Oral 25 mg/kg/day NOAEL Not carcinogenic

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

Product Level Toxicity Data

Acute Toxicity Estimate (ATE), >5000 mg/kg

Material Name: Neomycin Sulfate with Tetracaine Page 8 of 10

Hydrochloride Topical Powder Revision date: 12-Feb-2015

Revision date: 12-Feb-2015 Version: 2.1

12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties of the formulation have not been investigated. The following

information is available for the individual ingredients. Releases to the environment should be

avoided.

Toxicity:

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

Neomycin Sulfate

Daphnia magna (Water Flea) OECD EC50 48 Hours 68 mg/L Salmo gairdneri (Trout) OECD NOEC 96 Hours >1000 mg/L

Aquatic Toxicity Comments: A greater than symbol (>) indicates that aquatic toxicity was not observed at the maximum

dose tested.

Bacterial Inhibition: (Inoculum, Method, End Point, Result)

Neomycin Sulfate

Activated sludge OECD EC50 399 mg/L

Persistence and Degradability: No data available

Bio-accumulative Potential:

Neomycin Sulfate

Predicted 7.4 Log D 1.20

Isoflupredone Acetate

Predicted 7.4 Log D 2.46

Myristyl-gamma-picolinium chloride

Predicted 7.4 Log D 1.30

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.

Material Name: Neomycin Sulfate with Tetracaine Page 9 of 10

Hydrochloride Topical Powder Revision date: 12-Feb-2015

Revision date: 12-Feb-2015 Version: 2.1

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

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.



Lactose hydrous

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

REACH - Annex IV - Exemptions from the

Not Listed

Not Listed

Not Listed

Present

obligations of Register:

EU EINECS/ELINCS List Not Listed

Tetracaine Hydrochloride

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Present

EU EINECS/ELINCS List

205-248-5

Neomycin Sulfate

CERCLA/SARA 313 Emission reporting Not Listed

California Proposition 65 developmental toxicity initial date 10/1/92 internal use

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

Australia (AICS):

EU EINECS/ELINCS List

Present
215-773-1

Isoflupredone Acetate

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

206-423-9

Myristyl-gamma-picolinium chloride

CERCLA/SARA 313 Emission reporting

California Proposition 65

Not Listed Inventory - United States TSCA - Sect. 8(b)

Present

Material Name: Neomycin Sulfate with Tetracaine Page 10 of 10

Hydrochloride Topical Powder Revision date: 12-Feb-2015

Revision date: 12-Feb-2015 Version: 2.1

15. REGULATORY INFORMATION

Australia (AICS): Present EU EINECS/ELINCS List 220-387-1

16. OTHER INFORMATION

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

Acute toxicity, oral-Cat.3; H301 - Toxic if swallowed

Acute toxicity, oral-Cat.5; H303 - May be harmful if swallowed Sensitization, skin-Cat.1; H317 - May cause an allergic skin reaction

Sensitization, respiratory-Cat.1; H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Reproductive toxicity-Cat.2; H361d - Suspected of damaging the unborn child

Hazardous to the aquatic environment, acute toxicity-Cat.3; H402 - Harmful to aquatic life

Hazardous to the aquatic environment, chronic toxicity-Cat.3; H412 - Harmful to aquatic life with long lasting effects

Toxic to Reproduction: Category 3

Xn - Harmful

R22 - Harmful if swallowed.

R63 - Possible risk of harm to the unborn child.

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

Data Sources: The data contained in this SDS 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 7 - Handling and Storage. Updated

Section 8 - Exposure Controls / Personal Protection. Updated Section 11 - Toxicology

Information. Updated Section 3 - Composition / Information on Ingredients.

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