This SDS packet was issued with item:

078930219

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

078930218 078930220



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

Product Identifier

Material Name: PROHEART® 6

Trade Name: ProHeart®

Synonyms: Moxidectin Sustained Release Injectable for Dogs, Moxidectin 10%

Chemical Family: Macrocyclic lactone

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

Intended Use: Veterinary product used as anti-worm agent (anthelmintic)

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)

Zoetis Belgium S.A.

Mercuriusstraat 20

1930 Zaventem

Rocky Mountain Poison and Drug Center Phone: 1-866-531-8896 Belgium

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

Emergency telephone number: Emergency telephone number:

Contact E-Mail: VMIPSrecords@zoetis.com

2. HAZARDS IDENTIFICATION

Appearance: Wax Microspheres with a clear or translucent sterile solution

Classification of the Substance or Mixture

GHS - Classification

Acute Oral Toxicity: Category 4

Serious Eye Damage/Eye Irritation: Category 2

Specific target organ systemic toxicity (repeated exposure): Category 2

Acute aquatic toxicity: Category 1 Chronic aquatic toxicity: Category 1

Label Elements

Signal Word: Warning

Hazard Statements: H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H373 - May cause damage to organs through prolonged or repeated exposure

(central nervous system, peripheral nervous system) H410 - Very toxic to aquatic life with long lasting effects

Material Name: PROHEART® 6 Page 2 of 10 Revision date: 20-Aug-2015 Version: 4.0

Precautionary Statements: P280 - Wear protective gloves/protective clothing/eye protection/face protection

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

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

P264 - Wash hands thoroughly after handling

P273 - Avoid release to the environment

P314 - Get medical attention/advice if you feel unwell

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

unwell

P330 - Rinse mouth

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

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

P391 - Collect spillage

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



Other Hazards

Short Term:Can cause eye irritation . Signs and symptoms might include redness, swelling, blurred vision or pain. May cause slight skin irritation. May cause central nervous system effects.

Long Term:

May cause effects on nervous system through prolonged or repeated exposure.

Known Clinical Effects:

Adverse effects associated with therapeutic use include clumsy motion of limbs/trunk (ataxia)

drowsiness, depression, salivation.

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	GHS Classification	%
Moxidectin	113507-06-5	Not Listed	Acute Tox.3 (H301) Eye Irrit. 2A (H319) Skin Irrit 3 (H316) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	
Sodium chloride	7647-14-5	231-598-3	Not Listed	<1
Methylparaben	99-76-3	202-785-7	Not Listed	<1
Propylparaben	94-13-3	202-307-7	Not Listed	<0.1
Butylated hydroxytoluene	128-37-0	204-881-4	Not Listed	##

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Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Sterile Diluent	Not assigned	Not Listed	Not Listed	80-90

Additional Information: ## Trace

> 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 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: 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.

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

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Prevent product from entering drains. 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 spill with absorbent material. Clean spill

Collecting: 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.

Additional Information: Keep out of sewage systems and waterways.

7. HANDLING AND STORAGE

Precautions for Safe Handling

When handling, use appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid accidental injection. Wash hands and any exposed skin after removal of PPE. Releases to the environment should be avoided.

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.

Moxidectin

Zoetis OEL TWA 8-hr 70 μg/m³

Sodium chloride

Latvia OEL - TWA 5 mg/m³
Lithuania OEL - TWA 5 mg/m³

Butylated hydroxytoluene

ACGIH Threshold Limit Value (TWA) 2 mg/m^3 10 mg/m³ Australia TWA Austria OEL - MAKs 10 ma/m³ **Belgium OEL - TWA** 2 mg/m^3 10.0 mg/m³ **Bulgaria OEL - TWA Denmark OEL - TWA** 10 mg/m³ Finland OEL - TWA 10 mg/m³ France OEL - TWA 10 mg/m³ Germany - TRGS 900 - TWAs 10 mg/m³ Germany (DFG) - MAK 10 mg/m³ **Greece OEL - TWA** 10 mg/m³ **Ireland OEL - TWAs** 10 mg/m³ 2 mg/m^3 Portugal OEL - TWA 10 mg/m³ Slovenia OEL - TWA Spain OEL - TWA 10 mg/m³ **Switzerland OEL -TWAs** 10 mg/m³

Exposure Controls

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

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

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

Equipment: protective equipment (PPE).

Hands: Impervious gloves are recommended if skin contact with drug product is possible and for bulk

processing operations.

Eyes: Wear safety glasses or goggles if eye contact is possible.

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. Whenever excessive air contamination (dust, mist, vapor) is generated, respiratory protection, with

Mixture

appropriate protection factors, should be used to minimize exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:Wax Microspheres plus sterile diluentColor:Clear or translucentOdor:No data available.Odor Threshold:No data available.

Molecular Formula: Mixture Molecular Weight:

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

No data available

Moxidectin

Predicted 7 Log D 8.74

Personal Protective

Decomposition Temperature (°C): 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

Flammablity:

Autoignition Temperature (Solid) (°C):No data availableFlammability (Solids):No data availableFlash Point (Liquid) (°C):No data availableUpper Explosive Limits (Liquid) (% by Vol.):No data availableLower Explosive Limits (Liquid) (% by Vol.):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: Non-oxidizing

Conditions to Avoid: Fine particles (such as dust and mists) may fuel fires/explosions.

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10. STABILITY AND REACTIVITY

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

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: eye contact, skin contact

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

Moxidectin

Rat Oral LD50 106 mg/kg Rat Dermal LD50 > 2000mg/kg

Hydroxypropyl methylcellulose

Rat Oral LD50 > 10,000 mg/kg

Butylated hydroxytoluene

Rat Oral LD50 1700 mg/kg Mouse Oral LD50 650 mg/kg Rat Oral LD50 890 mg/kg

Mouse Intraperitoneal LD 50 138 mg/kg

Sodium chloride

Rat Oral LD50 3000 mg/kg Mouse Oral LD50 4000 mg/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.

Ingestion Acute Toxicity Harmful if swallowed.

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

Moxidectin

Eye Irritation Rabbit Moderate Skin Irritation Rabbit Mild

Skin Sensitization - Beuhler Guinea Pig Negative

Butylated hydroxytoluene

Eye Irritation Rabbit Moderate Skin Irritation Rabbit Moderate

Sodium chloride

Eye Irritation Rabbit Moderate Skin Irritation Rabbit Mild

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11. TOXICOLOGICAL INFORMATION

Irritation / Sensitization Comments: May cause eye irritation.

Skin Irritation / Sensitization May cause mild skin irritation.

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

Moxidectin

28 Day(s) Mouse Oral 75 mg/kg/day NOEL Central nervous system 28 Day(s) Rat Oral 100 mg/kg/day LOEL Central Nervous System 13 Week(s) Rat Oral 50 mg/kg/day NOEL Central Nervous System Oral 10 mg/kg/day NOEL Central Nervous System 90 Day(s) Dog

Butylated hydroxytoluene

4 Week(s) Rat Oral 5185 mg/kg LOAEL Liver

4 Day(s) Mouse Oral 2000 mg/kg LOAEL Liver, Kidney, Ureter, Bladder

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

Moxidectin

Embryo / Fetal Development Rabbit Oral 1 mg/kg bw/day NOEL Maternal toxicity, Not teratogenic

Embryo / Fetal Development Rat Oral 5 mg/kg/day NOEL Negative

Embryo / Fetal Development Rat Oral 5 mg/kg bw/day NOEL Not Teratogenic, Embryotoxicity, Maternal Toxicity

Butylated hydroxytoluene

Embryo / Fetal Development Rat Oral 6 g/kg LOEL Teratogenic,

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

Moxidectin

In Vitro Bacterial Mutagenicity (Ames) Salmonella, E. coli Negative

In Vitro HGPRT Forward Gene Mutation Assay Chinese Hamster Ovary (CHO) cells Negative

In Vivo Cytogenetics Rat Bone Marrow Negative

In Vivo Unscheduled DNA Synthesis Rat Hepatocyte Negative

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

Moxidectin

2 Year(s) Mouse Oral 30 mg/kg/day NOEL Not carcinogenic 2 Year(s) Rat Oral 100 mg/kg/day NOEL Not carcinogenic

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

Butylated hydroxytoluene

IARC: Group 3 (Not Classifiable)

Product Level Toxicity Data

Acute Toxicity Estimate (ATE), 1064 mg/kg

oral

ZT00030

Material Name: PROHEART® 6 Page 8 of 10 Revision date: 20-Aug-2015 Version: 4.0

12. ECOLOGICAL INFORMATION

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

information is available for the individual ingredients. The active ingredient in this formulation is Very toxic to aquatic organisms. May have long-term effects on the aquatic environment.

Releases to the environment should be avoided.

Toxicity:

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

Moxidectin

Lepomis macrochirus (Bluegill Sunfish) LC50 96 Hours 0.62 ppb Oncorhynchus mykiss (Rainbow Trout) LC50 96 Hours 0.16 ppb

Daphnia Magna (Water Flea) EC50 48 Hours 30 ppt

Selenastrum capricornutum (Green Alga) EC50 72 Hours > 87 ppb

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

dose tested.

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Moxidectin

Predicted 7 Log D 8.74

Mobility in Soil: No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Should not be released into the environment. 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

As of January 1, 2015, materials offered for transport that are classified for transportation only as Marine Pollutants and which are packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 Liters or less for liquids or having a net mass per single or inner packaging of 5 kilograms or less for solids are NOT subject to ICAO/IATA, IMDG, or ADR transport regulations provided the general packaging requirements of those regulations are met. Refer to ICAO/IATA A197, IMDG 2.10.2.7, ADR SP 375.

UN number: UN 3082

UN proper shipping name: Environmentally hazardous substances, liquid, n.o.s. (moxidectin)

Transport hazard class(es): 9
Packing group: 9

ZT00030

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Environmental Hazard(s): Marine Pollutant

Please refer to the applicable dangerous goods regulations for additional information. Transport according to the requirements of the appropriate regulatory body.

DOT / ANTT: Not regulated for transportation

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 B

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.



Moxidectin

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Standard for the Uniform Scheduling	Schedule 4
for Drugs and Poisons:	Schedule 5
	Schedule 6
	Schedule 7
EU EINECS/ELINCS List	Not Listed

Sodium chloride

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	231-598-3

Methylparaben

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	202-785-7

Propylparaben

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15. REGULATORY INFORMATION

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 Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Eisted

Not

Sterile Diluent

CERCLA/SARA 313 Emission reporting

California Proposition 65

EU EINECS/ELINCS List

Not Listed

Not Listed

Butylated hydroxytoluene

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

16. OTHER INFORMATION

Text of CLP/GHS Classification abbreviations mentioned in Section 3

Acute toxicity, oral-Cat.3; H301 - Toxic if swallowed Hazardous to the aquatic environment, acute toxicity-Cat.1; H400 - Very toxic to aquatic life Hazardous to the aquatic environment, chronic toxicity-Cat.1; H410 - Very toxic to aquatic life with long lasting effects Serious eye damage/eye irritation-Cat.2A; H319 - Causes serious eye irritation Skin corrosion/irritation-Cat.3; H316 - Causes mild skin irritation

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 1 - Identification of the Substance/Preparation and the Company/Undertaking.

Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on Ingredients. Updated Section 11 - Toxicology Information. Updated Section 14 - Transport Information. Updated Section 7 - Handling and Storage. Updated Section 15 - Regulatory

Information. Updated Section 16 - Other 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
