# This SDS packet was issued with item: 078929645

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

078929631 078929634 078929635 078929636 078929638 078929639 078929640 078929641 078929642 078929643 078929644 078929646



Revision date: 24-Sep-2015

Version: 5.3

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

**Product Identifier** 

Material Name: Selamectin topical solution- Single dose tubes

Trade Name: Synonyms: Chemical Family: REVOLUTION; STRONGHOLD; PARADYNE Selamectin formulation Mixture

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

Intended Use: Restrictions on Use: Veterinary product used as Antiparasitic (veterinary); endectocide Not for human use

Details of the Supplier of the Safety Data Sheet

Zoetis Inc.Z100 Campus Drive, P.O. Box 651MFlorham Park, New Jersey 07932 (USA)19Rocky Mountain Poison and Drug Center Phone: 1-866-531-8896BProduct Support/Technical Services Phone: 1-800-366-5288

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

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

### 2. HAZARDS IDENTIFICATION

Appearance: Colorless to pale yellow solution Classification of the Substance or Mixture GHS - Classification

> Serious Eye Damage/Eye Irritation: Category 2A Reproductive Toxicity: Category 2 Specific target organ systemic toxicity (single exposure): Category 3 Acute aquatic toxicity: Category 2 Chronic aquatic toxicity: Category 2 Flammable liquids- Category 2

Label Elements

 Signal Word:
 Danger

 Hazard Statements:
 H225 - Highly flammable liquid and vapor

 H336 - May cause drowsiness and dizziness
 H319 - Causes serious eve irritation

H361 - Suspected of damaging fertility or the unborn child

H411 - Toxic to aquatic life with long lasting effects

Material Name: Selamectin topical solution- Single dose tubes Revision date: 24-Sep-2015

| Precautionary Statements: | P201 - Obtain special instructions before use  |
|---------------------------|--|
|                           | P202 - Do not handle until all safety precautions have been read and understood            |
|                           | P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking                      |
|                           | P233 - Keep container tightly closed   |
|                           | P240 - Ground/Bond container and receiving equipment                                       |
|                           | P241 - Use explosion-proof electrical/ventilating/lighting/equipment                       |
|                           | P242 - Use only non-sparking tools   |
|                           | P243 - Take precautionary measures against static discharge                                |
|                           | P280 - Wear protective gloves/protective clothing/eye protection/face protection           |
|                           | P264 - Wash hands thoroughly after handling  |
|                           | P261 - Avoid breathing dust/fume/gas/mist/vapors/spray                                     |
|                           | P271 - Use only outdoors or in a well-ventilated area                                      |
|                           | P273 - Avoid release to the environment  |
|                           | P308 + P313 - IF exposed or concerned: Get medical attention/advice                        |
|                           | P312 - Call a POISON CENTRE/doctor/physician if you feel unwell                            |
|                           | P370 + P378 - In case of fire: Use CO2, dry chemical or foam for extinction                |
|                           | P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. |
|                           | Rinse skin with water/shower   |
|                           | 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                     |
|                           | P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position        |
|                           | comfortable for breathing  |
|                           | P405 - Store locked up   |
|                           | P403 + P235 - Store in a well-ventilated place. Keep cool                                  |
|                           | P501 - Dispose of contents/container in accordance with all local and national regulations |
|                           |  |



Other Hazards Short Term: Long Term:

Australian Hazard Classification (NOHSC):

Note:

Not acutely toxic (based on components). May cause slight skin irritation. Prolonged or repeated contact may cause defatting dermatitis (dryness and cracking of the skin). Repeat-dose studies in animals have shown a potential to cause adverse effects on : liver, reproductive system, and the developing fetus. Hazardous Substance. Dangerous Goods.

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

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Hazardous  |            |                     |                       | 1 |
|------------|------------|---------------------|-----------------------|---|
| Ingredient | CAS Number | EU<br>EINECS/ELINCS | GHS<br>Classification | % |
|            |            | List                |                       |   |

| 3. COMPOSITION/INFORMATION ON INGREDIENTS |             |            |   |         |
|---|-------------|------------|---|---------|
| Isopropyl alcohol                         | 67-63-0     | 200-661-7  | STOT SE 3 (H336)<br>Flam. Liq. 2 (H225)<br>Eye Irrit. 2A (H319)           | 72 - 86 |
| Selamectin                                | 220119-17-5 | Not Listed | Repr.2 (H361)<br>Aquatic Acute 1<br>(H400)<br>Aquatic Chronic 1<br>(H410) | 7 - 15  |
| Dipropylene glycol methyl ether           | 34590-94-8  | 252-104-2  | Not Listed  | <1.0    |
| Butylated hydroxytoluene                  | 128-37-0    | 204-881-4  | Not Listed  | <1.0    |

#### Additional Information:

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 Effect<br>Symptoms and Effects of<br>Exposure:<br>Medical Conditions<br>Aggravated by Exposure: | <ul> <li>ts, Both Acute and Delayed</li> <li>For information on potential signs and symptoms of exposure, See Section 2 - Hazards<br/>Identification and/or Section 11 - Toxicological Information.</li> <li>None known</li> </ul> |
| Indication of the Immediate Medical   | Attention and Special Treatment Needed   |

Notes to Physician: None

### **5. FIRE-FIGHTING MEASURES**

#### **Extinguishing Media:**

Carbon dioxide, dry chemical, or foam

#### Special Hazards Arising from the Substance or Mixture

Hazardous Combustion<br/>Products:Formation of toxic gases is possible during heating or fire.Fire / Explosion Hazards:Highly flammable. Vapors will form flammable or explosive mixtures with air at room<br/>temperature. Vapors are heavier than air and may travel along surfaces to remote ignition<br/>sources and flash back.

#### Advice for Fire-Fighters

Wear approved positive pressure, self-contained breathing apparatus and full protective turn out gear. Dike and collect water used to fight fire. Use spark-proof tools and explosion-proof equipment

### 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. Eliminate all sources of ignition and ventilate area using explosion-proof equipment.

#### **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 /<br>Collecting:        | Contain the source of the spill if it is safe to do so. 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. Prevent discharge to drains.   |
|---|--|
| Additional Consideration for<br>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. Contain the source of the spill or leak and shut off all electrical equipment if it is safe to do so. Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding procedures. Use water spray to disperse vapors and dilute spill to a nonflammable mixture. Collect spill with a non-combustible absorbent material and transfer to labeled container for disposal. Clean spill area thoroughly. Prevent runoff from entering waterways or sewers. Prevent discharge to drains. |

### 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. Take precautionary measures against static discharges. Use only in a well-ventilated area. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash hands and any exposed skin after removal of PPE. 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 at room temperatu

Storage Temperature: Specific end use(s): Store at room temperature in properly labeled containers. Keep away from heat, sparks, flame, and other sources of ignition. Store away from direct sunlight. Keep container tightly closed when not in use. Keep out of reach of children. Store as directed by product packaging. Store at or below 30°C (86°F).

#### Veterinary product used as Antiparasitic (veterinary); endectocide

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control Parameters**

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

#### Isopropyl alcohol

ACGIH Threshold Limit Value (TWA) ACGIH Threshold Limit Value (STEL) ACGIH - Biological Exposure Limit: Australia STEL 200 ppm 400 ppm 40 mg/L 500 ppm 1230 mg/m<sup>3</sup>

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| 8. EXPOSURE CONTROL                  | S / PERSONAL PROTECTION          |
|--------------------------------------|----------------------------------|
| Australia TWA                        | 400 ppm                          |
|                                      | 983 mg/m <sup>3</sup>            |
| Austria OEL - MAKs                   | 200 ppm                          |
|                                      | 500 mg/m <sup>3</sup>            |
| Belgium OEL - TWA                    | 200 ppm                          |
|                                      | 500 mg/m <sup>3</sup>            |
| Bulgaria OEL - TWA                   | 980.0 mg/m <sup>3</sup>          |
| Czech Republic OEL - TWA             | 500 mg/m <sup>3</sup>            |
| Denmark OEL - TWA                    | 200 ppm                          |
|                                      | 490 mg/m <sup>3</sup>            |
| Estonia OEL - TWA                    | 150 ppm                          |
|                                      | 350 mg/m <sup>3</sup>            |
| Finland OEL - TWA                    | 200 ppm                          |
| Commence TROS 000 TWAS               | 500 mg/m <sup>3</sup>            |
| Germany - TRGS 900 - TWAs            | 200 ppm<br>500 mg/m <sup>3</sup> |
| Germany (DFG) - MAK                  | 200 ppm                          |
| Germany (DI G) - MAR                 | 500 mg/m <sup>3</sup>            |
| Germany - Biological Exposure Limit: | 25 mg/L                          |
| Greece OEL - TWA                     | 400 ppm                          |
|                                      | 980 mg/m <sup>3</sup>            |
| Hungary OEL - TWA                    | 500 mg/m <sup>3</sup>            |
| Ireland OEL - TWAs                   | 200 ppm                          |
| Japan - OELs - Ceilings              | 400 ppm                          |
|                                      | 980 mg/m <sup>3</sup>            |
| Latvia OEL - TWA                     | 350 mg/m <sup>3</sup>            |
| Lithuania OEL - TWA                  | 150 ppm                          |
|                                      | 350 mg/m <sup>3</sup>            |
| OSHA - Final PELS - TWAs:            | 400 ppm                          |
|                                      | 980 mg/m <sup>3</sup>            |
| Poland OEL - TWA                     | 900 mg/m <sup>3</sup>            |
| Portugal OEL - TWA                   | 200 ppm                          |
| Romania OEL - TWA                    | 81 ppm                           |
|                                      | 200 mg/m <sup>3</sup>            |
| Romania - Biological Exposure Limit: | 50 mg/L                          |
| Slovakia OEL - TWA                   | 200 ppm                          |
| Slovenia OEL TWA                     | 500 mg/m <sup>3</sup>            |
| Slovenia OEL - TWA                   | 200 ppm<br>500 mg/m <sup>3</sup> |
| Spain OEL - TWA                      | 200 ppm                          |
| Spall OLE - TWA                      | 500 mg/m <sup>3</sup>            |
| Spain - Biological Exposure Limit:   | 40 mg/L                          |
| Sweden OEL - TWAs                    | 150 ppm                          |
|                                      | 350 mg/m <sup>3</sup>            |
| Switzerland OEL -TWAs                | 200 ppm                          |
|                                      | 500 mg/m <sup>3</sup>            |
|                                      | -                                |
| Selamectin                           |                                  |
| Zoetis OEL TWA 8-hr                  | 200 μg/m <sup>3</sup>            |
|                                      |                                  |
| Dipropylene glycol methyl ether      |                                  |
| ACGIH Threshold Limit Value (TWA)    | 100 ppm                          |
| ACGIH Threshold Limit Value (STEL)   | 150 ppm                          |
|                                      |                                  |

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|  | ROLS / PERSONAL PROTECTION  |
|--|---|
| ACGIH - Skin Absorption Designation                | Skin - potential significant contribution to overall exposure by the<br>cutaneous route |
| Australia TWA                                      | 50 ppm  |
| Austria OEL - MAKs                                 | 308 mg/m <sup>3</sup>   |
| AUSTRIA OEL - MAKS                                 | 50 ppm<br>307 mg/m <sup>3</sup>   |
| Belgium OEL - TWA                                  | 50 ppm  |
| -  | 308 mg/m <sup>3</sup>   |
| Bulgaria OEL - TWA                                 | 308.0 mg/m <sup>3</sup>   |
| Cyprus OEL - TWA                                   | 50 ppm<br>50 ppm  |
| Cyprus OLL - TWA                                   | 308 mg/m <sup>3</sup>   |
| Czech Republic OEL - TWA                           | 270 mg/m <sup>3</sup>   |
| Denmark OEL - TWA                                  | 50 ppm  |
|  | 309 mg/m <sup>3</sup>   |
| Estonia OEL - TWA                                  | 50 ppm<br>308 mg/m <sup>3</sup>   |
| Finland OEL - TWA                                  | 50 ppm  |
|  | 310 mg/m <sup>3</sup>   |
| France OEL - TWA                                   | 50 ppm  |
|  | 308 mg/m <sup>3</sup>   |
| Germany - TRGS 900 - TWAs                          | 50 ppm<br>310 mg/m <sup>3</sup>   |
| Germany (DFG) - MAK                                | 50 ppm  |
|  | 310 mg/m <sup>3</sup> mixture of isomers  |
| Greece OEL - TWA                                   | 100 ppm   |
| Hungary OEL - TWA                                  | 600 mg/m <sup>3</sup><br>308 mg/m <sup>3</sup>  |
| Ireland OEL - TWA                                  | 50 ppm  |
|  | 308 mg/m <sup>3</sup>   |
| Italy OEL - TWA                                    | 50 ppm  |
|  | 308 mg/m <sup>3</sup>   |
| Latvia OEL - TWA                                   | 50 ppm<br>308 mg/m <sup>3</sup>   |
| Lithuania OEL - TWA                                | 50 ppm  |
|  | 300 mg/m <sup>3</sup>   |
| Malta OEL - TWA                                    | 50 ppm  |
| Notherlands OEL TWA                                | 308 mg/m <sup>3</sup><br>300 mg/m <sup>3</sup>  |
| Netherlands OEL - TWA<br>OSHA - Final PELS - TWAs: | 100 ppm   |
|  | 600 mg/m <sup>3</sup>   |
| OSHA - Final PELs - Skin Notations:                | prevent or reduce skin absorption   |
| Poland OEL - TWA                                   | 240 mg/m <sup>3</sup>   |
| Portugal OEL - TWA                                 | 100 ppm   |
| Romania OEL - TWA                                  | 50 ppm<br>308 mg/m <sup>3</sup>   |
|  | 18 ppm  |
|  | 300 mg/m <sup>3</sup>   |
| Slovakia OEL - TWA                                 | 50 ppm  |
| Slovenia OEL - TWA                                 | 308 mg/m <sup>3</sup><br>50 ppm   |
| Sidvenia DEL - I WA                                | 308 mg/m <sup>3</sup>   |
|  |   |

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| 8. EXPOSURE CONTROLS / PERSONAL PROTE  | CTION                             |
|--|-----------------------------------|
| Spain OEL - TWA 50 ppm   |                                   |
| 308 mg/m <sup>3</sup>  |                                   |
| Sweden OEL - TWAs 50 ppm   |                                   |
| 300 mg/m <sup>3</sup>  |                                   |
| Switzerland OEL -TWAs 50 ppm   |                                   |
| 300 mg/m <sup>3</sup>  |                                   |
| Butylated hydroxytoluene   |                                   |
| ACGIH Threshold Limit Value (TWA) 2 mg/m <sup>3</sup>  |                                   |
| Australia TWA 10 mg/m <sup>3</sup>   |                                   |
| Austria OEL - MAKs 10 mg/m <sup>3</sup>  |                                   |
| Belgium OEL - TWA 2 mg/m <sup>3</sup>  |                                   |
| Bulgaria OEL - TWA 10.0 mg/m <sup>3</sup>  |                                   |
| Denmark OEL - TWA 10 mg/m <sup>3</sup>   |                                   |
| Finland OEL - TWA 10 mg/m <sup>3</sup>   |                                   |
| France OEL - TWA 10 mg/m <sup>3</sup>  |                                   |
| Germany - TRGS 900 - TWAs 10 mg/m <sup>3</sup>   |                                   |
| Germany (DFG) - MAK 10 mg/m <sup>3</sup>   |                                   |
| Greece OEL - TWA 10 mg/m <sup>3</sup>  |                                   |
| Ireland OEL - TWAs 10 mg/m <sup>3</sup>  |                                   |
| Portugal OEL - TWA 2 mg/m <sup>3</sup>   |                                   |
| Slovenia OEL - TWA 10 mg/m <sup>3</sup>  |                                   |
| Spain OEL - TWA 10 mg/m <sup>3</sup>   |                                   |
| Switzerland OEL -TWAs 10 mg/m <sup>3</sup>   |                                   |
| Exposure Controls  |                                   |
| Engineering Controls: Engineering controls should be used as the primary means to  | control exposures Keen            |
| airborne contamination levels below the exposure limits listed   |                                   |
| Personal Protective Refer to applicable national standards and regulations in the s  |                                   |
| Equipment: protective equipment (PPE).   |                                   |
| Una des  | and the second for both           |
| Hands: Impervious gloves are recommended if skin contact with drug processing operations.  | product is possible and for bulk  |
| 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.<br><b>Respiratory protection:</b> If the applicable Occupational Exposure Limit (OEL) is exceed                          | od waar an annrapriata            |
| Respiratory protection: If the applicable Occupational Exposure Limit (OEL) is exceed respirator with a protection factor sufficient to control exposure |                                   |
| · · ·  |                                   |

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Odor: Molecular Formula:

Solvent Solubility:No data availableWater Solubility:No data availableSolubility:Miscible: WaterpH:No data available.Melting/Freezing Point (°C):No data availableBoiling Point (°C):84Partition Coefficient: (Method, pH, Endpoint, Value)

Solution

Mixture

Characteristic alcohol odor

Color: Odor Threshold: Molecular Weight: Yellow to colorless No data available. Mixture

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES Selamectin Measured Log P 3.1 Decomposition Temperature (°C): No data available. Evaporation Rate (Gram/s): No data available Vapor Pressure (kPa): No data available Vapor Density (q/ml): No data available **Relative Density:** 0.815 - 0.847 Viscosity: No data available Flammablity: Autoignition Temperature (Solid) (°C): No data available Flammability (Solids): No data available Flash Point (Liquid) (°C): 19 Upper Explosive Limits (Liquid) (% by Vol.): No data available Lower Explosive Limits (Liquid) (% by Vol.): No data available Will not occur **Polymerization: 10. STABILITY AND REACTIVITY**

| Reactivity:<br>Chemical Stability:<br>Possibility of Hazardous Reactions | No data available<br>Stable under normal conditions of use.   |
|--|---|
| Oxidizing Properties:<br>Conditions to Avoid:                            | No data available<br>Keep away from heat, spark, flames and all other sources of ignition. Prevent vapor<br>accumulation. Vapours may form explosive mixture with air. Fine particles (such as dusts,<br>mists and vapors) may fuel fires/explosions. |
| Incompatible Materials:<br>Hazardous Decomposition<br>Products:          | As a precautionary measure, keep away from strong oxidizers<br>Thermal decomposition products may include carbon monoxide, carbon dioxide and other toxic<br>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 , skin contact , eye contact

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

#### **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

#### Isopropyl alcohol

Rat Oral LD50 > 2000 mg/kg Mouse Oral LD50 3600 mg/kg Rat Inhalation LC50-8h 16,000 ppm Rabbit Dermal LD50 12800 mg/kg

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### **11. TOXICOLOGICAL INFORMATION**

Rat Inhalation LC50 30mg/L

#### Dipropylene glycol methyl ether

Dog Oral LD50 7500 mg/kg Rat Oral LD 50 5400 μL/kg Rabbit Dermal LD 50 10 mL/kg

#### Selamectin

Rat Oral LD50 > 1600 mg/kg Mouse Oral LD50 > 1600mg/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.  |
| Inhalation Acute Toxicity | May be harmful if inhaled. May cause respiratory tract and mucous membrane irritation.                   |
|                           | Based on components, inhalation may cause irritation, headache, drowsiness, and symptoms of drunkenness. |

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

#### **Butylated hydroxytoluene**

Eye Irritation Rabbit Moderate Skin Irritation Rabbit Moderate

#### Isopropyl alcohol

Eye Irritation Rabbit Severe Skin Irritation Rabbit Mild

#### Dipropylene glycol methyl ether

Skin IrritationRabbitMildEye IrritationRabbitMild

Selamectin

Eye Irritation Rabbit Mild Skin Irritation Rabbit Minimal Skin Sensitization - GPMT Guinea Pig Negative

Irritation / Sensitization Comments:May cause eye irritation.Skin Irritation / SensitizationMay cause mild skin irritation. based on components.

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

#### **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

#### Isopropyl alcohol

20 Week(s) Rat Inhalation 4000 ppm NOAEL Liver, Central nervous system 104 Week(s) Rat Inhalation 5000 ppm Kidney

#### Selamectin

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| 11. TOXICOLOGICAL INFORMATION  |
|--|
| 3 Month(s) Rat Oral 5 mg/kg/day NOAEL Liver<br>3 Month(s) Dog Oral 40 mg/kg/day NOAEL None identified  |
| Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))  |
| Butylated hydroxytoluene<br>Embryo / Fetal Development Rat Oral 6 g/kg LOEL Teratogenic,   |
| Isopropyl alcoholPrenatal & Postnatal DevelopmentRatInhalation7,000 ppmLOAELMaternal toxicity, Fetotoxicity, Embryotoxicity2 Generation Reproductive ToxicityRatOral 1000 mg/kg/dayLOAELMaternal Toxicity, Fetal mortalityPrenatal & Postnatal DevelopmentRatOral 1200 mg/kg/dayNOAELNo effects at maximum dose, |
| Selamectin<br>Reproductive & Fertility Rat 10 mg/kg/day NOAEL Fetotoxicity<br>Prenatal & Postnatal Development Rat 10 mg/kg/day NOAEL Developmental toxicity<br>Prenatal & Postnatal Development Rat Oral 40 mg/kg/day NOAEL Maternal Toxicity,  |
| Genetic Toxicity: (Study Type, Cell Type/Organism, Result)   |
| Isopropyl alcohol<br>Bacterial Mutagenicity (Ames) Salmonella Negative<br>Mammalian Cell Mutagenicity HGPRT Chinese Hamster Ovary (CHO) cells Negative<br>In Vitro Sister Chromatid Exchange Negative  |
| SelamectinBacterial Mutagenicity (Ames)SalmonellaNegativeIn Vitro CytogeneticsHuman LymphocytesNegativeIn Vivo MicronucleusMouseNegativeMammalian Cell MutagenicityChinese Hamster Ovary (CHO) cells HGPRTNegative   |
| Carcinogen Status:         None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA           See below         See below  |
| Butylated hydroxytoluene         IARC:       Group 3 (Not Classifiable)  |
| Isopropyl alcohol<br>IARC: Group 3 (Not Classifiable)  |
|  |
|  |

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|  | 12. ECOLOGICAL INFORMATION  |
|--|---|
| Environmental Overview:  | Environmental properties of the formulation have not been investigated. This mixture contains material that is toxic to aquatic life. Bioaccumulation and/or long term effects are not expected. Releases to the environment should be avoided. |
| Toxicity:  |   |
| Aquatic Toxicity: (Species, Method, E  | Ind Point, Duration, Result)  |
| Selamectin<br>Daphnia magna (Water Flea) OECD<br>Mysidopsis bahia (Mysid Shrimp) LC3<br>Cyprinodon variegatus (Sheepshead Mi<br>Selenastrum capricornutum (Green Alga<br>Oncorhynchus mykiss (Rainbow Trout)<br>Aquatic Toxicity Comments: | 50 96 Hours 28 ng/L<br>nnow) LC50 48 Hours > 28 ug/L<br>a) OECD EC50 72 Hours >763 ug/L   |
| Persistence and Degradability:   | No data available   |
| Bio-accumulative Potential:  | No data available   |
| Selamectin<br>Measured Log P 3.1   |   |
| 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<br/>applicable laws and regulations. Member State specific and Community specific provisions<br/>must be considered. Considering the relevant known environmental and human health<br/>hazards of the material, review and implement appropriate technical and procedural waste<br/>water and waste disposal measures to prevent occupational exposure and environmental<br/>release. It is recommended that waste minimization be practiced. The best available<br/>technology should be utilized to prevent environmental releases. This may include destructive<br/>techniques for waste and wastewater.

### **14. TRANSPORT INFORMATION**

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

This material is regulated for transportation as a hazardous material/dangerous good.

| UN number:                  |  |
|-----------------------------|--|
| UN proper shipping name:    |  |
| Transport hazard class(es): |  |
| Packing group:              |  |
| Environmental Hazard(s):    |  |
| Flash Point (°C):           |  |

UN 1219 Isopropanol Solution 3 II Marine Pollutant (Selamectin) 19

Material Name: Selamectin topical solution- Single dose tubes Revision date: 24-Sep-2015

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See "excepted quantity" provisions if applicable. Marine pollutant requirements apply only to quantities >5 Liters for liquids / >5 Kilograms for solids (per inner package) when shipped as per IMDG or ADR (effective year 2015 or greater) regulations. Please refer to the applicable dangerous goods regulations for additional information. Transport according to the requirements of the appropriate regulatory body.

Flash Point (°C): 19

### **15. REGULATORY INFORMATION**

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

#### Canada - WHMIS: Classifications

WHMIS hazard class: Class B, Division 2

Class D, Division 2, Subdivision A

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.



| Isopropyl alcohol                           |            |
|---|------------|
| CERCLA/SARA 313 Emission reporting          | 1.0 %      |
| California Proposition 65                   | Not Listed |
| Inventory - United States TSCA - Sect. 8(b) | Present    |
| Australia (AICS):                           | Present    |
| EU EINECS/ELINCS List                       | 200-661-7  |
| Selamectin                                  |            |
| CERCLA/SARA 313 Emission reporting          | Not Listed |
| California Proposition 65                   | Not Listed |
| EU EINECS/ELINCS List                       | Not Listed |
| Dipropylene glycol methyl ether             |            |
| 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                       | 252-104-2  |
| Butylated hydroxytoluene                    |            |
| CERCLA/SARA 313 Emission reporting          | Not Listed |

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### **15. REGULATORY INFORMATION**

California Proposition 65 Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS/ELINCS List Not Listed Present Present 204-881-4

### **16. OTHER INFORMATION**

#### Text of CLP/GHS Classification abbreviations mentioned in Section 3

Flammable liquids-Cat.2; H225 - Highly flammable liquid and vapor Serious eye damage/eye irritation-Cat.2A; H319 - Causes serious eye irritation Specific target organ toxicity, single exposure; Narcotic effects-Cat.3; H336 - May cause drowsiness and dizziness Reproductive toxicity-Cat.2; H361 - Suspected of damaging fertility or the unborn child 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

| 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 3 - Composition / Information on Ingredients. Updated Section 14 - Transport Information. Updated Section 16 - Other Information.   |
| Description of the second s | Tovicelen, and Userand Communication  |

 Prepared by:
 Toxicology and Hazard Communication

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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**