

# SAFETY DATA SHEET



Revision date: 24-Sep-2015

Version: 5.3

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

### Product Identifier

**Material Name:** Selamectin topical solution- Single dose tubes

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

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

**Intended Use:** Veterinary product used as Antiparasitic (veterinary); endectocide  
**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 and Drug 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:** 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 eye irritation  
H361 - Suspected of damaging fertility or the unborn child  
H411 - Toxic to aquatic life with long lasting effects

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**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:**

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.

**Australian Hazard Classification (NOHSC):**

**Note:**

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous**

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Isopropyl alcohol	67-63-0	200-661-7	STOT SE 3 (H336) Flam. Liq. 2 (H225) Eye Irrit. 2A (H319)	72 - 86
Selamectin	220119-17-5	Not Listed	Repr.2 (H361) Aquatic Acute 1 (H400) Aquatic Chronic 1 (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 Effects, Both Acute and Delayed

- Symptoms and Effects of Exposure:** For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.
- Medical Conditions Aggravated by Exposure:** None known

#### 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 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 temperature. Vapors are heavier than air and may travel along surfaces to remote ignition 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

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### 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 / 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 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 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.

**Storage Temperature:** Store at or below 30°C (86°F).

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

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### 8. EXPOSURE CONTROLS / 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 500 mg/m <sup>3</sup>
Germany - TRGS 900 - TWAs	200 ppm 500 mg/m <sup>3</sup>
Germany (DFG) - MAK	200 ppm 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 500 mg/m <sup>3</sup>
Slovenia OEL - TWA	200 ppm 500 mg/m <sup>3</sup>
Spain OEL - TWA	200 ppm 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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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

<b>Engineering Controls:</b>	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.
<b>Personal Protective Equipment:</b>	Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).
<b>Hands:</b>	Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations.
<b>Eyes:</b>	Wear safety glasses or goggles if eye contact is possible.
<b>Skin:</b>	Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations.
<b>Respiratory protection:</b>	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

<b>Physical State:</b>	Solution	<b>Color:</b>	Yellow to colorless
<b>Odor:</b>	Characteristic alcohol odor	<b>Odor Threshold:</b>	No data available.
<b>Molecular Formula:</b>	Mixture	<b>Molecular Weight:</b>	Mixture
<b>Solvent Solubility:</b>	No data available		
<b>Water Solubility:</b>	No data available		
<b>Solubility:</b>	Miscible: Water		
<b>pH:</b>	No data available.		
<b>Melting/Freezing Point (°C):</b>	No data available		
<b>Boiling Point (°C):</b>	84		
<b>Partition Coefficient: (Method, pH, Endpoint, Value)</b>			

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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 (g/ml):** No data available

**Relative Density:** 0.815 - 0.847

**Viscosity:** No data available

#### Flammability:

**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

**Polymerization:** Will not occur

### 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:** Keep away from heat, spark, flames and all other sources of ignition. Prevent vapor accumulation. Vapours may form explosive mixture with air. Fine particles (such as dusts, mists and vapors) 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 , 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 Irritation Rabbit Mild  
Eye Irritation Rabbit Mild

##### Selamectin

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

**Irritation / Sensitization Comments:** May cause eye irritation.

**Skin Irritation / Sensitization** May 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  
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**

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

##### **Isopropyl alcohol**

Prenatal & Postnatal Development Rat Inhalation 7,000 ppm LOAEL Maternal toxicity, Fetotoxicity, Embryotoxicity  
2 Generation Reproductive Toxicity Rat Oral 1000 mg/kg/day LOAEL Maternal Toxicity, Fetal mortality  
Prenatal & Postnatal Development Rat Oral 1200 mg/kg/day NOAEL No effects at maximum dose,

##### **Selamectin**

Reproductive & Fertility Rat 10 mg/kg/day NOAEL Fetotoxicity  
Prenatal & Postnatal Development Rat 10 mg/kg/day NOAEL Developmental toxicity  
Prenatal & Postnatal Development Rat Oral 40 mg/kg/day NOAEL Maternal Toxicity,

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

##### **Isopropyl alcohol**

Bacterial Mutagenicity (Ames) *Salmonella* Negative  
Mammalian Cell Mutagenicity HGPRT Chinese Hamster Ovary (CHO) cells Negative  
*In Vitro* Sister Chromatid Exchange Negative

##### **Selamectin**

Bacterial Mutagenicity (Ames) *Salmonella* Negative  
*In Vitro* Cytogenetics Human Lymphocytes Negative  
*In Vivo* Micronucleus Mouse Negative  
Mammalian Cell Mutagenicity Chinese Hamster Ovary (CHO) cells HGPRT Negative

#### Carcinogen Status:

None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.  
See below

##### **Butylated hydroxytoluene**

IARC: Group 3 (Not Classifiable)

##### **Isopropyl alcohol**

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, End Point, Duration, Result)**

**Selamectin**

*Daphnia magna* (Water Flea) OECD EC50 48 Hours 26 ng/L

*Mysidopsis bahia* (Mysid Shrimp) LC50 96 Hours 28 ng/L

*Cyprinodon variegatus* (Sheepshead Minnow) LC50 48 Hours > 28 ug/L

*Selenastrum capricornutum* (Green Alga) OECD EC50 72 Hours >763 ug/L

*Oncorhynchus mykiss* (Rainbow Trout) OECD LC50 96 Hours 266 ug/L

**Aquatic Toxicity Comments:** A greater than (>) symbol indicates that acute ecotoxicity was not observed at the maximum solubility. Since the substance is insoluble in aqueous solutions above this concentration, an acute ecotoxicity value (i.e. LC/EC50) is not achievable.

**Persistence and Degradability:** No data available

**Bio-accumulative Potential:** No data available

**Selamectin**

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 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.

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

**UN number:** UN 1219  
**UN proper shipping name:** Isopropanol Solution  
**Transport hazard class(es):** 3  
**Packing group:** II  
**Environmental Hazard(s):** Marine Pollutant (Selamectin)  
**Flash Point (°C):** 19

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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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## SAFETY DATA SHEET

Material Name: Selamectin topical solution- Single dose tubes  
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### 15. REGULATORY INFORMATION

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

**Prepared by:** Toxicology and Hazard Communication  
Zoetis Global Risk Management

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**End of Safety Data Sheet**