

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

078551772

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

078013332 078013340 078013357 078013365 078013373 078013381 078400346 078400353 078413162 078413170

078413188 078422294 078422567 078422666 078551780 078551798 078551814 078551822 078551830



Material Safety Data Sheet  
**IVERHART PLUS®**  
(ivermectin/pyrantel pamoate)  
Flavored Chewable Tablets  
Product Codes: 0170DS, 0170DM, & 0170DL

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

Product Name	IVERHART PLUS® (ivermectin/pyrantel pamoate) Flavored Chewable
Product Description	Tablets for Worm Control in Dogs
Manufacturer/Supplier	Virbac AH, Inc.
Address	P.O. Box 162059 Fort Worth, Texas 76161
Phone Number	(800) 338-3659 for Technical Support
Chemtrec Number (24 hour)	(800) 424-9300
Emergency Number:	(800) 338-3659 for Human and Animal Medical Emergencies
MSDS Revision Date:	March 1, 2011
Supersedes MSDS Dated:	January 25, 2010

Material Safety Data Sheet in compliance with OSHA's Hazcom Standard (29 CFR 1910.1200)

**2. HAZARDS IDENTIFICATION**

**Emergency Overview**

**WARNING!**

Hazardous to humans.

May cause adverse gastrointestinal, liver and central nervous system effects.

Wash thoroughly with soap and water after handling.

Keep out of reach of children.

**Routes of Entry**

Ingestion

**Carcinogenic Status**

Not considered carcinogenic by NTP, IARC, and OSHA.

**Target Organs**

Liver - Gastrointestinal Tract - Central Nervous System

**Health Effects - Eyes**

Not an expected route of entry during normal handling and use.

**Health Effects - Skin**

Contact with skin is not expected to cause adverse effects.

**Health Effects - Ingestion**

Ingestion of this material may cause central nervous system and gastrointestinal effects such as headache, dizziness, nausea, vomiting, diarrhea, abdominal cramps and constipation. Chronic exposure can result in adverse liver effects.

**Health Effects - Inhalation**

Not an expected route of entry during normal handling and use.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component Name	CAS Number	Concentration
Pyrantel as pamoate salt	22204-24-6	48.32%
Ivermectin	70288-86-7	0.021%



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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Each tablet contains:  
57, 114 or 227 mg of Pyrantel as pamoate salt  
68, 136, or 272 mcg of Ivermectin

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### 4. FIRST AID MEASURES

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#### Eyes

Immediately flood the eye with plenty of water for at least 15-20 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

#### Skin

If irritation develops wash skin thoroughly with soap and water. Obtain medical attention if redness or soreness persists.

#### Ingestion

Contact a physician immediately if ingested. Physician may call a poison control center for advice concerning human ingestion.

#### Inhalation

Not applicable

#### Advice to Physicians

Federal (U.S.A.) law restricts this drug to use by or on the order of a licensed veterinarian.

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### 5. FIRE - FIGHTING MEASURES

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#### Extinguishing Media

Use extinguishing media appropriate for surrounding materials.

#### Unusual Fire and Explosion Hazards

Can release hazardous vapors during a fire.

#### Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

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### 6. ACCIDENTAL RELEASE MEASURES

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Sweep and dispose of small amounts in trash. Large amounts should be disposed of in a sanitary landfill.

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### 7. HANDLING AND STORAGE

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Store in original container at temperatures between 59°F and 86°F (15°C - 30° C). Keep out of sunlight. Keep away from children. Wash hands after dispensing to dog before eating, drinking or smoking. Use product on or before expiration date. Discard or return unused tablets.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### Occupational Exposure Standards

Exposure limits are listed below, if they exist.

#### Pyrantel as Pamoate Salt

None established

#### Ivermectin

None established



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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Engineering Control Measures

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

### Respiratory Protection

Not required under normal conditions of use.

### Hand Protection

Not required under normal conditions of use. Workers should wash hands before eating, drinking or smoking.

### Eye Protection

Not required under normal conditions of use.

### Body Protection

Normal work wear.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State	Solid (tablet)
Color	Tan
Odor	None
pH	Not applicable
Specific Gravity	No data available
Boiling Range/Point (°C/F)	Not applicable
Melting Point (°C/F)	Not applicable
Flash Point (PMCC) (°C/F)	Not flammable
Explosion Limits (%)	No data available
Vapor Pressure	Not applicable
Density	No data available
Solubility in Water	Soluble
Vapor Density (Air = 1)	Not applicable

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## 10. STABILITY AND REACTIVITY

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### Stability

Stable under normal conditions.

### Conditions to Avoid

Heat - high temperatures

### Materials to Avoid

Strong oxidizers

### Hazardous Polymerization

Will not occur.

### Hazardous Decomposition Products

Oxides of carbon- nitrogen oxides - sulfur oxides



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## 11. TOXICOLOGICAL INFORMATION

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See product insert and/or packaging for additional information.

### Acute Toxicity

Pyrantel as pamoate salt: Oral LD50 (rat) >4000 mg/kg

Ivermectin: Oral LD50 (rat) 10 - 50 mg/kg

### Specific Target Organ Systemic Toxicity (single and repeat)

Pyrantel as pamoate salt: May cause adverse effects to the liver, gastrointestinal tract and central nervous system.

### Serious Eye damage/Eye Irritation

Not expected to cause adverse effects.

### Skin Corrosion/Irritation

Not expected to cause adverse effects.

### Respiratory or Skin Sensitization

This product may cause a reaction in individuals with pork allergies.

### Carcinogenicity

Not expected to cause long term adverse health effects.

### Germ Cell Mutagenicity

This product is not expected to cause any mutagenic effects.

### Toxicity to Reproduction

This product is not expected to cause adverse reproductive effects.

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## 12. ECOLOGICAL INFORMATION

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### Mobility

No relevant studies identified.

### Persistence/Degradability

No relevant studies identified.

### Bio-accumulation

No relevant studies identified.

### Ecotoxicity

No relevant studies identified.

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## 13. DISPOSAL CONSIDERATIONS

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Dispose of in accordance with all applicable local and national regulations.

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## 14. TRANSPORT INFORMATION

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DOT CFR 172.101 Data	Not Regulated
UN Proper Shipping Name	Not Regulated
UN Class	None.
UN Number	None.
UN Packaging Group	None.
Classification for AIR Transportation (IATA)	Consult current IATA Regulations prior to shipping by air.



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**15. REGULATORY INFORMATION**

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**US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS**

**TSCA Listing**

This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Substance (TSCA) Inventory.

**DSL (Canadian) Listing**

This product contains ingredients that are not listed on the Domestic Substance List (DSL).

**WHMIS Classification**

D.2.B

This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.

**MA Right To Know Law**

This product contains the following chemicals on the Massachusetts Right to Know Law: Cellulose (9004-34-6)

**PA Right To Know Law**

This product contains the following chemicals on the Pennsylvania Hazardous Substance List: Cellulose (9004-34-6)

**NJ Right To Know Law**

This product contains the following chemicals on the New Jersey Workplace Hazardous Substance List: None

**California Proposition 65**

This product contains the following materials which the State of California has found to cause cancer, birth defects or other reproductive harm: None

**SARA Title III Sect. 311/312 Categorization**

Immediate (acute) Delayed (chronic)

**SARA Title III Sect. 313**

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: None

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**16. OTHER INFORMATION**

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**NFPA Ratings**

NFPA Code for Flammability - 0

NFPA Code for Health - 0

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards - 0

**HMIS Ratings**

HMIS Code for Flammability - 0

HMIS Code for Health - 0

HMIS Code for Reactivity - 0

HMIS Code for Personal Protection - See Section 8





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16. OTHER INFORMATION

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**Abbreviations**

ACGIH: American Conference of Governmental Industrial Hygienists  
BOD: Biological Oxygen Demand  
CAS#: Chemical Abstracts Service Number  
FIFRA: Federal Insecticide, Fungicide and Rodenticide Act  
IARC: International Agency for Research on Cancer  
LC50: Lethal Concentration 50%  
LD50: Lethal Dose 50%  
N/A: Denotes no applicable information found or available  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible Exposure Limit  
STEL: Short Term Exposure Limit  
TLV: Threshold Limit Value  
TSCA: Toxic Substance Control Act

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16. OTHER INFORMATION

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For further information call: (800) 338-3659

Prepared By: EnviroNet LLC

IVERHART PLUS is a registered trademark of Virbac Corporation.

The information and recommendations presented in this MSDS are based on sources believed to be accurate. Virbac AH, Inc. assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the **material** for their particular purposes. In particular, we make NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use **or disposal** of the material is in accordance with applicable Federal, State, and local laws and regulations.



**SAFETY DATA SHEET**  
**IVERHART™ PLUS**  
**(ivermectin/pyrantel)**  
**Flavored Chewables**

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**1. IDENTIFICATION**

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<b>Product Name</b>	IVERHART™ PLUS (ivermectin/pyrantel) Flavored Chewables
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Identified uses</b>	Chewable for worm control in dogs
<b>Restrictions on Use</b>	Federal law restricts this drug to use by or on the order of a licensed veterinarian.
<b>Company Identification</b>	Virbac AH, Inc. P.O. Box 162059 Fort Worth, Texas 76161 (800) 338-3659
<b>Customer Information Number</b>	
<b>Emergency Telephone Number</b>	
<b>Chemtrec Number</b>	(800) 424-9300
<b>Other Emergency Number:</b>	Poison Control Center: 1-800-222-1222 (human) HOT LINE NUMBER: 1-800-345-4735 (human and pet)
<b>Issue Date</b>	February 13, 2017
<b>Supersedes Date</b>	March 1, 2011

*Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)*

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**2. HAZARDS IDENTIFICATION**

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**Hazard Classification**

Acute Hazards to the Aquatic Environment – Category 1 (This classification not adopted by OSHA.)

**Label Elements**

Hazard Symbols



Signal Word: Warning

**Hazard Statements**

Very toxic to aquatic life.

**Precautionary Statements**

**Prevention**

Avoid release to the environment.

**Response**

None

**Storage**

None

**Disposal**

Dispose of contents/container in accordance with local and national regulations.





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## 2. HAZARDS IDENTIFICATION

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### Other Hazards

This product may cause a reaction in individuals with pork allergies.

### Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity	10 - 20%
Acute dermal toxicity	50 - 60%
Acute inhalation toxicity	70 - 80%
Acute aquatic toxicity	>90%

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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### Synonyms:

This product is a mixture.

Component Name	CAS Number	Concentration
Pyrantel Pamoate	22204-24-6	45 - 55 %
Pork Liver Powder	NA	10 - 20%
Ivermectin	70288-86-7	<0.1%

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## 4. FIRST AID MEASURES

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### Description of necessary first-aid measures

#### Eyes

Not an expected route of entry. If tablet contacts eye, flush thoroughly with water. If pain or irritation persists contact a physician.

#### Skin

If irritation develops wash skin thoroughly with soap and water. Obtain medical attention if redness or soreness persists.

#### Ingestion

Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

#### Inhalation

Remove person to fresh air. Seek medical attention if symptoms persist.

### Most important symptoms/effects, acute and delayed

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

### Indication of immediate medical attention and special treatment needed

#### Notes to Physicians

Treat symptomatically.

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## 5. FIRE - FIGHTING MEASURES

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### Extinguishing Media

Use extinguishing media appropriate for surrounding materials.



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**5. FIRE - FIGHTING MEASURES**

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**Unusual Fire and Explosion Hazards**

Can release hazardous vapors during a fire.

**Protective Equipment for Fire-Fighting**

Wear full protective clothing and self-contained breathing apparatus.

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**6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment and emergency procedures**

No specific measures recommended.

**Environmental Precautions**

Prevent the material from entering drains or watercourses.

**Methods and materials for containment and cleaning up**

Pick up and dispose of in accordance with all applicable local and national regulations. Prevent the material from entering drains or watercourses.

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**7. HANDLING AND STORAGE**

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**Precautions for safe handling**

Wear appropriate protective clothing.

**Conditions for safe storage**

Store in original container at temperatures between 59°F and 86°F (15°C - 30°C). Store away from children and pets.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Control parameters**

Exposure limits are listed below, if they exist.

**Appropriate engineering controls**

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

**Individual protection measures****Respiratory Protection**

Not required under normal conditions of use.

**Skin Protection**

Not required under normal conditions of use.

**Eye/Face Protection**

Not required under normal conditions of use.

**Body Protection**

Normal work wear



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	<b>Physical State</b>	Solid
	<b>Color</b>	Tan
<b>Odor</b>		None
<b>Odor Threshold</b>		No data available
<b>pH</b>		No data available
<b>Relative Density</b>		No data available
<b>Boiling Range/Point (°C/F)</b>		No data available
<b>Melting Point (°C/F)</b>		No data available
<b>Flash Point (PMCC) (°C/F)</b>		Not flammable
<b>Vapor Pressure</b>		No data available
<b>Evaporation Rate (BuAc=1)</b>		No data available
<b>Solubility in Water</b>		No data available
<b>Vapor Density (Air = 1)</b>		No data available
<b>VOC</b>		No data available
<b>Partition coefficient (n-octanol/water)</b>		Not applicable
<b>Viscosity</b>		Not applicable
<b>Auto-ignition Temperature</b>		No data available
<b>Decomposition Temperature</b>		No data available
<b>Upper explosive limit</b>		No data available
<b>Lower explosive limit</b>		No data available
<b>Flammability (solid, gas)</b>		No data available

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## 10. STABILITY AND REACTIVITY

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### Reactivity

Data is not available.

### Chemical Stability

Stable under normal conditions.

### Possibility of hazardous reactions

Hazardous reactions will not occur.

### Conditions to Avoid

Heat - high temperatures

### Incompatible Materials

None known.

### Hazardous Decomposition Products

Oxides of carbon – nitrogen oxides – sulfur oxides

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## 11. TOXICOLOGICAL INFORMATION

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### Acute Toxicity

Ivermectin:

Oral LD50 (rat) 50 mg/kg

Oral LD50 (human) >15mg/kg

Dermal LD50 406 mg/kg (rabbit)



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## 11. TOXICOLOGICAL INFORMATION

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### **Acute Toxicity**

#### Pyrantel Pamoate

Oral LD50 (rat) >2000 mg/kg

### **Specific Target Organ Toxicity (STOT) – single exposure**

Ivermectin: At high doses in humans and animals vomiting, tachycardia, blood pressure fluctuation, CNS effects (somnolence, ataxia) and visual disturbances have been observed. Higher doses may cause death due to respiratory depression.

### **Specific Target Organ Toxicity (STOT) – repeat exposure**

No relevant studies identified.

### **Serious Eye damage/Irritation**

Ivermectin: Slightly irritating to eyes in rabbit tests.

### **Skin Corrosion/Irritation**

Ivermectin: Non-irritating in animal studies.

### **Respiratory or Skin Sensitization**

This product may cause a reaction in individuals with pork allergies.

Ivermectin: Hypersensitivity reactions have been reported in humans.

### **Carcinogenicity**

Not considered carcinogenic by NTP, IARC, and OSHA.

### **Germ Cell Mutagenicity**

Pyrantel Pamoate: Ames test in *S. typhimurium* Result: Negative. Murine Sperm-head abnormality test Result: Positive.

Ivermectin: Negative in the AMES Assay, and in a mouse lymphoma mutation assay. In addition, it did not induce unscheduled DNA synthesis in a human fibroblast cell culture, suggesting that it does not damage DNA.

### **Reproductive Toxicity**

Pyrantel Pamoate: No evidence of adverse effects on fertility, reproduction or lactation was observed in rats at oral doses of 250 mg/kg/day. No maternal toxicity, embryo or fetotoxicity were observed in perinatal and postnatal toxicity study.

Ivermectin: Teratogenic in rats, rabbit and mice at or near materno-toxic dose levels. The abnormalities are limited mainly to cleft palate.

### **Aspiration Hazard**

Not an aspiration hazard.

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## 12. ECOLOGICAL INFORMATION

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### **Ecotoxicity**

#### Ivermectin

LC50 (Trout) 0.003mg/l 96hr

LC50 (*Daphnia magna*) 0.000025mg/l 48hr

### **Mobility in soil**

Ivermectin: Ivermectin is metabolized in the soil. Water solubility is limited and it binds to soil very tightly. It does not bioconcentrate in fish and is not taken up from soil into plants.



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**12. ECOLOGICAL INFORMATION**

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**Persistence/Degradability**

Ivermectin: Slow biodegradation. Photodegrades rapidly.

**Bioaccumulative Potential**

No relevant studies identified.

**Other adverse effects**

No relevant studies identified.

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**13. DISPOSAL CONSIDERATIONS**

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**Disposal Methods**

Dispose of in accordance with all applicable local and national regulations.

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**14. TRANSPORT INFORMATION**

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Contact supplier for transport information.

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**15. REGULATORY INFORMATION**

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**United States TSCA Inventory**

This product is excluded from the US EPA Toxic Substance Control Act and is regulated under the Food, Drug and Cosmetic Act.

**California Proposition 65**

This product contains the following materials which the State of California has found to cause cancer, birth defects or other reproductive harm: None

**SARA Title III Sect. 311/312 Categorization**

None

**SARA Title III Sect. 313**

The following chemicals are listed in Section 313 at or above de minimis concentrations: None

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**16. OTHER INFORMATION**

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**Legend**

ACGIH: American Conference of Governmental Industrial Hygienists

CAS#: Chemical Abstracts Service Number

FIFRA: Federal Insecticide, Fungicide and Rodenticide Act

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

N/A: Denotes no applicable information found or available

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act



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**16. OTHER INFORMATION**

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Revision Date: February 13, 2017  
Replaces: March 1, 2011  
Changes made: Updated to GHS classification.

**Information Source and References**

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

**Prepared By:** EnviroNet LLC.

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