

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Emamectin Benzoate 5%WG

Trade Name: PONTUS

CAS No.: 155569-91-8

Molecular Weight: 1008.3/994.2

Chemical Formula: C₅₆H₈₁NO₁₅ (B_{1a}); C₅₅H₇₉NO₁₅ (B_{1b})

Supplier and Authorized Exporter: Shenzhen Yancheng Chemicals Co., Limited

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2. HAZARD IDENTIFICATION

2.1 Symptoms of Acute Exposure

Causes severe eye irritation. Injury may be permanent. Irritating to skin. Inhalation can cause irritation to the respiratory tract and can result in chemical pneumonitis if aspirated. Ingestion results in central nervous system effects such as muscle tremors, decreased activity, ataxia (unsteadiness or in coordination), and dilated pupils (mydriasis). Vapors may cause drowsiness and dizziness.

2.2 Hazardous Decomposition Products

May decompose at high temperatures forming toxic gases.

2.3 Unusual Fire, Explosion and Reactivity Hazards

Non-flammable solid. Can release vapors at temperatures at or above the flash point. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition.

3. COMPOSITION INFORMATION

Ingredient		CAS No.	Content
Active ingredient	Emamectin Benzoate	155569-91-8	5%
Inert	Not listed		Up to 100%

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Move person to fresh air and keep at rest until recovered. If any signs or symptoms occur or persist, get medical attention.

In case of skin contact

In case of contact with skin, immediately flush skin with running water for at least 15 minutes. Remove contaminated clothing and wash affected areas thoroughly with soap and water. Wash contaminated

clothing before re-use.

In case of eye contact

If product gets in eyes immediately flush skin or eyes with running water for at least 15 minutes.

If swallowed

If swallowed, do not induce vomiting. Give large quantities of water and seek immediate medical assistance.

4.2 Notes to Physician

There is no specific antidote if this product is ingested. Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Use dry chemical, foam or CO₂ extinguishing media

5.2 Special Fighting Procedures

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

5.3 Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

6. ACCIDENTAL RELEASE MEASURES

6.1 In case of spill or leak

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

7.1 Storage

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

7.2 Handling

No special protective measures against fire required. Avoid contact with skin and eyes. When using, do not eat, drink or smoke.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

8.1 Personal measures

Ingestion

Do not eat, drink, smoke or apply cosmetics in areas where there is a potential for exposure to this material. Always wash thoroughly after handling.

Eyes

To avoid eye contact, wear chemical goggles or a full-face shield.

Skin

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation

A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH approved respirator with any HE filters. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light yellow granule
Odour	Characteristic
pH	4.8-8.0
Evaporation rate	No data available
Flammability (solid,gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	3 x 10(-8) mmHg @ 70°F (21°C)
Vapour density	No data available
S.G./ density	0.60 g/cm ³
Water Solubility	30-50ppm (pH7)
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

10.1 Stability

Stable under normal use and storage conditions.

10.2 Hazardous Polymerization

Will not occur.

10.3 Conditions to avoid

Heat; light.

10.4 Materials to avoid

Not known

10.5 Hazardous decomposition products

May decompose at high temperatures forming toxic gases.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

This product is slightly hazardous (WHO Hazard Class III)

Swallowed LOW TOXICITY
 Tests indicate a low toxicity following single doses of undiluted product.
 (LD50 = 1516 mg/kg)

Dermal absorption LOW TOXICITY
 Tests indicate a low toxicity due to skin contact with undiluted product.
 (LD50 >2000 mg/kg)

Inhaled LOW TOXICITY
 Tests indicate a low toxicity due to inhalation with undiluted product. (LD50
 (4hr) >6.28 mg/L air)

Irritation

Eye MILD IRRITANT

Skin MILD IRRITANT

Sensitisation

Skin Not a sensitizer (Guinea Pig)

Reproductive/Developmental Effects

Developmental and reproductive toxicity observed in dosages that are toxic to mature animals.

Chronic/Subchronic Toxicity Studies

Developmental and reproductive toxicity observed in dosages that are toxic to mature animals.

Carcinogenicity

None observed.

Other Toxicity Information

None

Toxicity of Other Components

Not Applicable

Target Organs

Active Ingredients

Central nervous system, bladder

Inert Ingredients

Not Applicable

12. ECOLOGICAL INFORMATION

12.1 Summary of Effects

Very toxic to aquatic life

12.2 Ecotoxicity Effects

Fish (Rainbow Trout) 96-hour LC50 174 ppb

Green Algae 5-day EC50 > 3.9 ppb

Invertebrate (Water Flea) Daphnia magna 48-hour EC50 1.0 ppb

Bird (Mallard Duck) 14-day LD50 46 mg/kg

12.3 Environmental Fate

The information presented here is for the active ingredient, Emamectin benzoate. Low bioaccumulation potential. Persistent in soil. Stable in water. Immobile in soil. Sinks in water (after 24 h).

13. DISPOSAL CONSIDERATION

13.1 Disposal

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

14. TRANSPORT INFORMATION

DOT Classification

Ground Transport - NAFTA

Not regulated.

B/L Freight Classification

Insecticides, NOI, O/T Poison

Comments

Water Transport - International

Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Emamectin Benzoate), Marine Pollutant

Hazard Class or Division: Class 9

Identification Number: UN3077

Packing Group: PG III

Air Transport - International

Not regulated.

15. REGULATORY INFORMATION

15.1 EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: Not Applicable

15.2 California Proposition 65

Not applicable

15.3 CERCLA/SARA 302 Report Quantity (RQ)

None.

15.4 RCRA Hazardous Waste Classification (40 CFR 261)

Not applicable



15.5 TSCA Status

Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

Disclaimer:

The manufacture provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. The manufacture makes no representations or express or implied, including without limitation any warranties of merchantability fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, the manufacture will not be responsible for damages resulting from use of or reliance upon this information.
