

## **MATERIAL SAFETY DATA SHEET**

### **EABCL CONTEST 5.7% WDG**

#### **Section 1. Chemical Product and Company Identification**

**QINGDAO KYX CHEMICAL CO.,LTD**

GUHE INDUSTRY ZONE, SHUIJI, LAIXI CITY, QINGDAO, CHINA

Tel: +086 532 66961528 Fax: +086 532 66961544

**Product Name: Emamectin Benzoate 5.7% WDG**

**Common Name: Emamectin Benzoate**

**Chemical Name (IUPAC):** mixture containing 90% of (10E,14E,16E,22Z)-(1R,4S,5'S,6S,6'R,8R,12S,13S,20R,21R,24S)-6'-[(S)-sec-butyl]-21,24-dihydroxy-5',11,13,22-tetramethyl-2-oxo-3,7,19-trioxatetracyclo[15.6.1.14,8.020,24]pentacosa-10,14,16,22-tetraene-6-spiro-2'-(5',6'-dihydro-2'H-pyran)-12-yl 2,6-dideoxy-3-O-methyl-4-O-(2,4,6-trideoxy-3-O-methyl-4-methylamino-alpha-L-lyxo-hexopyranosyl)-alpha-L-arabinohexopyranoside benzoate and 10% of (10E,14E,16E,22Z)-(1R,4S,5'S,6S,6'R,8R,12S,13S,20R,21R,24S)-21,24-dihydroxy-6'-isopropyl-5',11,13,22-tetramethyl-2-oxo-3,7,19-trioxatetracyclo[15.6.1.14,8.020,24]pentacosa-10,14,16,22-tetraene-6-spiro-2'-(5',6'-dihydro-2'H-pyran)-12-yl 2,6-dideoxy-3-O-methyl-4-O-(2,4,6-trideoxy-3-O-methyl-4-methylamino-alpha-L-lyxo-hexopyranosyl)-alpha-L-arabinohexopyranoside benzoate.

#### **Section 2. Composition/Information on Ingredients**

**Component CAS Number Content (g/kg)**

<b>Coponent</b>	<b>CAS Number</b>	<b>Content</b>
Emamectin benzoate	155569-91-8	Min 5.7%
Inerts	Not applicable	Max94.3%

### **Section 3. Hazards Identification**

#### **Hazard Classification:**

Classified as a hazardous chemical according to the Australian criteria for the classification of chemicals

#### **Risk Phrases:**

R 22 Harmful if swallowed

R 36 Irritating to eyes

**Safety Phrases:** -

### **Section 4. First Aid Measures**

**Ingestion:** If swallowed: Call a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Eye Contact:** If in eyes: Hold eye open and rinse slowly and gently with water for 15- 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Skin Contact:** If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Inhalation:** If inhaled: Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth- to- mouth if possible. Call a poison control center or doctor for further treatment advice.

**Poisoning Symptoms:** Lack of coordination, Tremors, Dilatation of the pupil

**Medical Advice:** This material is believed to enhance GABA activity in animals. It is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic mectin

exposure. Toxicity can be minimized by early administration of chemical absorbents (e.g. activated charcoal). If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parental fluid replacement therapy should be given, along with other required supportive measures as indicated by clinical signs, symptoms and measurements.

### **Section 5. Fire Fighting Measures**

#### **Fire and Explosion :**

Flash Point (Test Method): Not Applicable

Autoignition Temperature: Not Available

Flammability: Not Applicable

**In Case of Fire :** Use dry chemical, foam or CO<sub>2</sub> extinguishing media. 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.

### **Section 6. Accidental Release Measures**

**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 in Protective Equipment Section. Cover entire spill with absorbing material and place into 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.

### **Section 7. Handling and 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. Store in tightly sealed original containers in a dry secure place away from fertilisers, seed, feed and food. Store out of direct sunlight.

### **Section 8. Exposure Controls/Personal Protection**

**Ingestion:** Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly with soap and water after handling.

**Eye Contact:** Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Skin Contact:** Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

**Inhalation:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. A NIOSH-certified combination air-purifying respirator with an N, P or R 95 or HE class filter and an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a pressure demand atmosphere-supplying respirator if there is any potential for uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate



Beyond Business

**EAST AFRICAN BUSINESS COMPANY LIMITED**

P. O. Box: 29024 - 00100 GPO Nairobi - Kenya, Office Line: +254 20 240 3391 / 254 740 529 579

Email: [info@eabusinesscompany.com](mailto:info@eabusinesscompany.com), [eabclimited@gmail.com](mailto:eabclimited@gmail.com) / Skype: ksantosh2001

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protection.

### **Section 9. Physical and Chemical Properties**

**Colour:** Pale white

**Physical State:** Granule

**Odor:** No characteristic odor

**Specific Gravity:** 0.6g/cm<sup>3</sup>

### **Section 10. Stability and Reactivity**

**Stability:** Stable

**Hazardous Polymerization:** Will Not Occur

**Conditions to Avoid:** Heat; light

**Materials to Avoid:** None known

**Hazardous Decomposition Products:** Can decompose at high temperatures forming toxic gases.

### **Section 11. Toxicological Information**

#### **Acute Toxicity/Irritation Studies**

**Oral LD50 (Rat) :** 1130 mg/kg

**Dermal LD50 (Rabbit) :** > 2000 mg/kg body weight

**Eye Contact:** Mild irritant(Rabbit)

**Skin Contact:** Non-irritant(Rabbit)

**Inhalation:** > 2.03 mg/L 4 hours

### **Section 12. Ecological Information**

**Birds** oral > 500mg/kg (Japanese quail, 7d)

**Fish** 3.05mg/L (Rainbow trout, 96 h)

**Daphnia** 17.4µg/L (daphnia 48 h)



**Bees** 0.0614µg/bee (Honeybee 48 h)

**Worms** > 1000mg/kg(Eisenia foetida dry soil, 14d)

### **Section 13. Disposal Considerations**

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

**Characteristic Waste:** Not Applicable

### **Section 14. Transport Information**

The data provided in this section is for information only. Please apply the appropriate regulations.

### **Section 15. Regulator Information**

Follow all regulations in your country.

### **Section 16. Other Information**

**Disclaimer:** The information provided by QINGDAO KYX CHEMICAL CO., LTD contained herein is given in good faith and to the best of our knowledge. However, no warranty is expressed or implied.

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