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# MATERIAL SAFETY DATA SHEET

**Enstar AQ Insect Growth Regulator** 

Manufacturer: Wellmark International

Address: 1501 East Woodfield Road, Suite 200-West Schaumburg, IL 60173

**Emergency Phone:** 888-914-2082

**Transportation Emergency Phone:** CHEMTREC: 1-800-424-9300

# 1. CHEMICAL PRODUCT INFORMATION

Product Name: Enstar AQ Insect Growth Regulator

Chemical Name/Synonym: (S)-Kinoprene

Chemical Family: Juvenile hormone mimic

Formula:  $C_{18}H_{28}O_2$  EPA Registration No.: 2724-793

RF Number: RF2067A

# 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component (chemical, common name)	<u>CAS</u> <u>Number</u>	Weight	<u>Tolerance</u>
(S)-Kinoprene;			Not
2-propynyl (2E,4E)-(7S)-3,7,11-trimethyl-2,4-dodecadienoate	65733-20-2	18.4%	established
Inert ingredients (non-hazardous and/or trade secret)		81.6%	

# 3. HAZARD INFORMATION

# PRECAUTIONARY STATEMENTS KEEP OUT OF REACH OF CHILDREN

CAUTION: Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing.

PRIMARY ROUTE OF ENTRY <u>Dermal/Eye:</u> Yes. <u>Oral:</u> No. <u>Inhalation:</u> Yes.

ACUTE TOXICITY Oral: No specific hazard identified.

**Dermal:** No specific hazard identified. **Inhalation:** No specific hazard identified.

### OTHER TOXICOLOGICAL INFORMATION

Skin Irritation: May cause slight skin irritation.Eye Irritation: May cause minimal eye irritation.

Sensitizer: Not a skin sensitizer.

# 4. FIRST AID MEASURES

**If swallowed:** • Call a poison control center or doctor immediately for treatment advice.

Have person sip a glass of water if able to swallow.

Do not induce vomiting unless told to by a poison control center or doctor.

• Do not give anything to an unconscious person.

• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue

rinsing.

Call a poison control center or doctor for treatment advice.

Note to Physician: There is no specific antidote. Treatment of overexposure should be directed at

the control of symptoms and the clinical condition.

# 5. FIRE FIGHTING MEASURES

NFPA Rating: Health: 2 Fire: 1 Reactivity: 0

Flammability Class: Class IIIB Liquid.

Flash Point: Not available.

Explosive Limits (% of Volume): Not available.

**Extinguishing Media:** Water spray, foam, dry chemical, CO2.

Special Protective Equipment: Firefighters should wear full protective clothing and self contained breathing

apparatus.

Fire Fighting Procedures: Normal procedures. Do not allow fire fighting waters or material to enter

waterways or sewers.

**Combustion Products:** Carbon monoxide, carbon dioxide.

Unusual Fire/Explosion Hazards: [Specific to (S)-Kinoprene] From thermal stability testing, susceptible to

exothermic air oxidation at elevated temperatures >130°C.

# 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken: Soak up spilled material with absorbents and carefully collect into a suitable

waste container for disposal. Wash spill area with water. Caution - may form slippery surface when mixed with water. Do not allow rinse waters to enter

sewers.

**Absorbents:** Clay granules or other appropriate inert absorbent material.

**Incompatibles:** None known.

# 7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes or clothing. Avoid breathing spray mist.

Storage: Store in a cool, dry area away from food, water, or feed. Do not store in direct

sunlight or heat.

# 8. EXPOSURE CONTROL / PERSONAL MEASURES

Exposure Limits: Not available for product mixture. This product contains a proprietary chemical

that has a Manufacturers Recommended Exposure Limit of 10 mg/m<sup>3</sup>.

Ventilation: Use with adequate ventilation.

Personal Protective Equipment: Use appropriate impervious chemical resistant gloves. Use appropriate

protective eyewear. Use appropriate protective clothing. If adequate ventilation

is not available an approved respirator may be necessary.

Enstar AQ Insect Growth Regulator

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Milky white emulsion, similar to Munsell Color N 9.25 / 84.2% R.

Moderate, unpleasant, oil-like odor.

**Boiling Point:** Not available. **Melting Point:** Not applicable.

Vapor Pressure (mm Hg): Not available.

Vapor Density (Air = 1): Not available.

Specific Gravity: 1.0164

Bulk Density: 8.5 lbs / gallon.

Solubility: Miscible in water (emulsifies).

Evaporation Rate: Not available.

**pH**: 6.65

# 10. STABILITY AND REACTIVITY

Stability: Stable.

Reactivity: Not reactive.

Incompatibility w/ Other None known.

Materials:

110110 11110 11111

**Decomposition Products:** Carbon dioxide and monoxide from incomplete combustion.

Hazardous Polymerization: Will not occur.

#### 11. TOXICOLOGICAL INFORMATION

#### **ACUTE TOXICITY**

Acute oral toxicity (rat): LD50 = 3129 mg/kg Acute dermal toxicity: LD50 >5,000 mg/kg Acute inhalation toxicity: 4-hr LC50 >2.05 mg/L

Skin irritation: Slight irritation Eye irritation: Minimal irritation Dermal Sensitization: Not a sensitizer

# **Kinoprene**

# CHRONIC TOXICITY [Specific to Active Ingredient(s)]

In 90-day feeding studies, the no-observed effect level (NOEL) was 1000 ppm in rats and 900 ppm in dogs. The target organ was identified as the liver in rats at 5000 ppm, where both decreased body weight gains, liver enlargement and liver pathology were seen.

# DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Specific to Active Ingredient(s)]

No adverse maternal or developmental effects were seen in rats at 75 mg/kg/day; both maternal deaths and fetal toxicity were seen at higher levels.

# MUTAGENICITY [Specific to Active Ingredient(s)]

Not mutagenic when tested in either bacterial or mammalian cells.

# 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE [Active Ingredients Only]

Hydrolysis: Not determined Photolysis: Not determined

Soil half life: Not determined

Water solubility: 0.2 mg/l (20°C)

**ECOTOXICITY** [Active Ingredients Only]

Acute Toxicity: Fish: LC50 (Trout): 20 mg/liter (ppm) (96 hour test)

Aquatic Invertebrates: LC50(daphnia): 0.113 mg/ liter (ppm) (48 hours)

# 13. DISPOSAL CONSIDERATIONS

Wastes resulting from use of this product should be disposed of in accordance with all federal, state and local requirements. For additional regulatory information, see section 15 of this document.

# 14. TRANSPORT INFORMATION

DOT49CFR Description: Not Applicable.

Freight Classification: Insecticides NOI O/T Poison.

# 15. REGULATORY INFORMATION

CERCLA (Superfund): Not regulated.

RCRA: Not regulated.

# **SARA 311/312 HAZARD CATEGORIES**

Immediate Health: Yes.

Delayed Health: No.

Fire: No.

Sudden Pressure: No.

Reactivity: No.

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other or additional considerations.