MATERIAL SAFETY DATA SHEET
ZOECON GENTROL® IGR CONCENTRATE

Manufacturer: Wellmark International
Address: 1501 E. Woodfield Rd., Suite 200-West, Schaumburg, IL 60173
Emergency Phone: 1-800-248-7763
Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: Zoecon Gentrol® IGR Concentrate
Chemical Name/Synonym: (S)-Hydroprene: (Ethyl(2E,4E,7S)-3,7,11-trimethyl-2,4-dodecadienoate
Chemical Family: Isoprenoid
Formula: C17 H30 O2
EPA Registration No.: 2724-351
RF Number: 259

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component (chemical, common name) | CAS Number | Weight | Tolerance
--- | --- | --- | ---
(S)-Hydroprene: (Ethyl(2E,4E,7S)-3,7,11-trimethyl-2,4-dodecadienoate) | 65733-18-8 | 9.0% | Not established
Inert ingredients (non hazardous and/or trade secret): | | 91.0% | Not established

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENT
WARNING: Keep out of the reach of children. Avoid contact with eyes, skin or clothing. Causes skin irritation. Harmful if swallowed. Wash thoroughly with soap and water after handling.

SIGNS AND SYMPTOMS OF OVEREXPOSURE
Intoxification not reported. Probable symptoms of over exposure would be nausea, vomiting, diarrhea, and G.I. irritation.

PRIMARY ROUTE OF ENTRY
Dermal/Eye: Yes  Oral: No  Inhalation: No

ACUTE TOXICITY
Oral: LD₅₀ (rat): >34,000 mg/kg (highest dose level tested)
Dermal: LD₅₀ (rabbit): >5,000 mg/kg (highest dose level tested)
Inhalation: LC₅₀ (rat): >5mg/l (highest dose level tested)

OTHER TOXICOLOGICAL INFORMATION
Skin Irritation: Moderate irritant (rabbit)
Eye Irritation: Minimal (rabbit)
Sensitizer: Not considered a sensitizer (guinea pig)
4. FIRST AID MEASURES

**Eye:**  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 eye. Call a poison control center or doctor for treatment advice.

**Skin:**  Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes

**Ingestion:**  Immediately call poison control center or doctor. Do not induce vomiting unless told to do so by poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**Inhalation:**  Move to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

**Note to Physician:**  Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

5. FIRE FIGHTING MEASURES

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**Flammability Class:**  Combustible liquid

**Flash Point:**  200°F

**Explosive Limits (% of Volume):**  Not known

**Extinguishing Media:**  CO2, foam, water

**Special Protective Equipment:**  Firefighters should wear full protective equipment including self contained breathing apparatus.

**Fire Fighting Procedures:**  Normal procedures. Do not allow firefighting water to escape into waterways or sewers.

**Combustion Products:**  Oxides of carbon and oxides of sulfur.

**Unusual Fire/Explosion Hazards:**  None known

6. ACCIDENTAL RELEASE MEASURES

**Steps to be taken:**  Contain spill and do not allow to enter waterways. Soak up with absorbent material and place in a container for disposal.

**Absorbents:**  Clay granules, sawdust, dirt, or equivalent.

**Incompatibles:**  Strong oxidizers.

7. HANDLING AND STORAGE

**Handling:**  Avoid inhalation of vapors and contact with skin, eyes, and clothing. Wash hands, arms and face thoroughly with soap and water after handling product. Do not use this product in or on an electrical portion of equipment due to possibility of shock hazard.

**Storage:**  Keep away from children. Store in cool area. Do not contaminate water, food, or feed by storage.

8. EXPOSURE CONTROL / PERSONAL MEASURES

**Exposure Limits:**  Not established

**Ventilation:**  Use with adequate ventilation.

**Personal Protective Equipment:**  If prolonged exposure is anticipated, it is recommended for handlers to wear a MSHA/NIOSH approved organic vapor /pesticide respirator, impermeable gloves, goggles and other protective clothing to prevent skin contact.
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Straw colored liquid with mild petroleum solvent odor.
Boiling Point: Not known
Melting Point: Not applicable
Vapor Pressure (mm Hg): Not known
Vapor Density (Air = 1): Not known
Specific Gravity: 0.85
Bulk Density: 7.1 lbs/gal
Solubility: Emulsifies in water
Evaporation Rate: Not known
pH: 6.22

10. STABILITY AND REACTIVITY

Stability: Stable
Reactivity: Not reactive
Incompatibility w/ Other Materials: Strong Oxidizers
Decomposition Products: Carbon oxides, sulfur oxides
Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

SUBCHRONIC TOXICITY [Specific to Active Ingredient(s)]
In a 90-day subchronic feeding study in rats, the NOEL was 50 mg/kg/day. Changes in body weight and organ weights were observed at higher dose levels. Maximum tolerated dose (MTD) was suggested to be between 250 and 1,000 mg/kg/day. No immunotoxic effects were observed in a study in mice when (S)-Hydroprene was fed (diet) at dose levels up to and including 1,200 mg/kg/day, continuously for 30 days.

DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Specific to Active Ingredient(s)]
Parental reproductive performance in rats remained unaffected up to a dose level of 7,500 ppm, when evaluated in a 2-generation reproduction/toxicity study. Histologically, all females of 7,500 ppm dose group had cytoplasmic vacuolation in the ovaries and regression of corpora lutea, but without affecting reproductive performance. The NOEL for pup development was 1,500 ppm. No teratogenic or fetotoxic effects were observed in rats when pregnant animals were exposed (gavage) to (S)-Hydroprene at levels up to 1,000 mg/kg/day (highest dose tested) during days 6 to 15 of gestation. NOEL for maternal toxicity was 1,000 mg/kg/day. Minor skeletal anomalies observed at lower dose levels were absent in the high dose animals, indicating an observation unrelated to the dose treatment.

MUTAGENICITY [Specific to Active Ingredient(s)]
(S)-Hydroprene is not a mutagen.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE [Active Ingredients Only]
Hydrolysis: Not available
Photolysis: Not available
Soil half life: Not available
Water solubility: <2 ppm, emulsifies in water

ECOTOXICITY [Active Ingredients Only]
Acute Toxicity: fish: Not available; aquatic invertebrates: Not available
13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food, or feed by disposal. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility. **Container disposal:** Do not reuse empty container. Securely wrap original container in several layers of newspaper and discard in trash.

14. TRANSPORT INFORMATION

- **DOT49CFR Description:** Not regulated
- **Freight Classification:** Insecticides, other than poison, N.O.I. NMFC-102120

15. REGULATORY INFORMATION

- **CERCLA (Superfund):** Not regulated as hazardous
- **RCRA:** Not regulated as hazardous

**SARA 311/312 HAZARD CATEGORIES**

- **Immediate Health:** Yes (Irritant)
- **Delayed Health:** No
- **Fire:** Yes
- **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.*