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MATERIAL SAFETY DATA SHEET

ZOECON® GENTROL® IGR CONCENTRATE

Manufacturer: Wellmark International

Address: 1000 Tower Lane, Suite 245 Bensenville, IL 60106

Emergency Phone: 1-800-248-7763

Transportation Emergency CHEMTREC: 1-800-424-9300

Phone:

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) | <u>CAS</u> <u>Number</u> | Weight | <u>Tolerance</u> |
|--|-----------------------------|--------|------------------|
| (S)-Hydroprene: Ethyl (2E,4E,7S)-3,7,11-trimethyl-2,4-dodecadienoate | 65733-18-8 | 9.0% | |
| Inert ingredients (nonhazardous and/or trade secret): | | 91.0% | |

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENT

WARNING: Keep out of reach of children. Avoid contact with eyes, skin or clothing. causes skin irritation. Harmful if swallowed. Wash throughly with soap and water after handling.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Intoxification not reported. Probable symptoms of overexposure would be nausea, diarrhea, vomiting, G.I. tract irritation.

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

ACUTE TOXICITY Oral: LD50 (rat): >5,100 mg/kg b.w. (highest dose level tested)

Dermal: LD50 (rabbit): >2,100 mg/kg b.w. (highest dose level tested)

Inhalation: LC50 (rat): >7.3 mg/L (highest dose level tested)

OTHER TOXICOLOGICAL INFORMATION

Skin Irritation: Moderate (rabbit)

Eye Irritation: Minimal (rabbit)

Sensitizer: Not considered a sensitizer (guinea pig)

4. FIRST AID MEASURES

Eye: Flush with gently flowing water. If irritation persists see a physician

Skin: Wash thoroughly with soap and water. If irritation occurs, see a physician

Ingestion: Do not induce vomiting. Drink promptly a large quantity of molk, egg whites,

gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician or poison control center immediately

Inhalation: Remove to fresh air and get medical attention if needed

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

5. FIRE FIGHTING MEASURES

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

Flammability Class: Combustible liquid

Flash Point: 200F

Explosive Limits (% of Volume): Not known

Extinguishing Media: CO2, foam, water fog

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

apparatus.

Fire Fighting Procedures: Normal procedures. Do not allow fire fighting water to escape into waterways

or sewers.

Combustion Products: Oxides of carbon and oxides of sulfur

Unusual Fire/Explosion Hazards: Not known

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken: Absorb spill with inert 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 a cool area. Do not contaminate water,

food, or feed by storage or disposal.

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, impervious

gloves, goggles and other protective clothing to avoid 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: Non-reactive

Incompatibility w/ Other Strong Oxidizers

Materials:

Decomposition Products: Carbon oxides, sulfur oxides

Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

CHRONIC 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.

<u>MUTAGENICITY</u> [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 reuse container. Securely wrap original container in several layers of newspaper and discard in trash. Larger wastes resulting from this product may be disposed of on site or at an approved waste disposal facility.

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: 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.