

MATERIAL SAFETY DATA SHEET
GENTROL® IGR CONCENTRATE

Manufacturer: Wellmark International
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Emergency Phone: 1-800-248-7763
Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: 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

<u>Component (chemical, common name)</u>	<u>CAS Number</u>	<u>Weight</u>	<u>Tolerance</u>
(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: Mild irritant (rabbit)
Eye Irritation: Mild to moderate irritant (rabbit)
Sensitizer: Positive skin sensitization in guinea pigs

4. FIRST AID MEASURES

Eye: Immediately flush eyes with copious amount of water for about 15 minutes. See a doctor if irritation persists.

Skin: Wash material off with copious amounts of water and soap. Remove contaminated clothing and footwear. Wash before reuse. See doctor if symptoms develop

Ingestion: Give 1-2 glasses of water and try to induce vomiting. by sticking finger down the throat. Repeat until vomitus is clear. Never give anything by mouth to an unconscious person. Refer individual to medical personnel.

Inhalation: Remove individual to fresh air. See a doctor if cough or other respiratory symptoms develop

Note to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

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

Flammability Class: Combustible liquid (active ingredient)

Flash Point: 182F/84C

Explosive Limits (% of Volume): Not known

Extinguishing Media: Water, foam, CO2, dry chemical

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: None known

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: None known

7. HANDLING AND STORAGE

Handling: Wash thoroughly with soap and water after handling.

Storage: Store in original container in a cool, dry place established for pesticides.

8. EXPOSURE CONTROL / PERSONAL MEASURES

Exposure Limits: Not established

Ventilation: Use with adequate ventilation.

Personal Protective Equipment: Users and Handlers should wear impermeable gloves, goggles and other protective clothing to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:	Clear, pale yellow liquid with a faint fruity odor.
Boiling Point:	Not known
Melting Point:	Not applicable
Vapor Pressure (mm Hg):	Less than 1 at 25C
Vapor Density (Air = 1):	Not known
Specific Gravity:	0.89 (H ₂ O=1)
Bulk Density:	7.4 lbs/gal
Solubility:	0.54 ppm
Evaporation Rate:	Less than butyl acetate
pH:	Not applicable

10. STABILITY AND REACTIVITY

Stability:	Stable
Reactivity:	Not reactive
Incompatibility w/ Other Materials:	None known
Decomposition Products:	None known
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 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 under D.O.T.

Freight Classification: Insecticides, N.O.I. o/t poison; NMFC I-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.