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MATERIAL SAFETY DATA SHEET
ZOECON® PRECOR 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® Precor IGR Concentrate

Chemical Name/Synonym: (S)-Methoprene: Isopropyl (2E,4E,7S)-11-methoxy-37,11-trimethyl-2,4-dodecadienoate

Chemical Family: Terpenoid

Formula: C19 H34 O3

EPA Registration No.: 2724-352

RF Number: 291A

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component (chemical, common name)	CAS Number	Weight	Tolerance
(S)- Methoprene: Isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate	65733-16-6	1.2%	Not established
Inert ingredients (non-hazardous and/or trade secret)**:**		98.8%	
Aliphatic Hydrocarbon	64742-47-8		Not established

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENT

Caution: Harmful if absorbed through the skin. Avoid contact with skin, eyes and clothing. In case of contact, immediately flush skin or eyes with plenty of water. Get medical attention if irritation persists.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

At large exposures, may cause headaches, nausea, dizziness, may act as anesthetic, cause drowziness.

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

ACUTE TOXICITY

Oral: LD50 (rat) : >34,000 mg/kg (HDT) (Based on (S)-Methoprene).

Dermal: LD50 (rabbit) : >2,000 mg/kg (HDT) (Based on (S)-Methoprene).

Inhalation: LC50 (rat) 5.19 mg/L air (Based on (S)-Methoprene).

OTHER TOXICOLOGICAL INFORMATION

Skin Irritation: Non-irritating (rabbit) (Based on (S) Methoprene).

Eye Irritation: Practically non-irritating (rabbit) (Based on (S) Methoprene).

Sensitizer: Not a sensitizer (guinea pig) (Based on (S)-Methoprene).

4. FIRST AID MEASURES

Eye: Hold eyes 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 eyes.

Skin: Wash with plenty of soap and water. If irritation persists, get medical attention.

Ingestion: Do not induce vomiting. Call a physician or poison control center immediately for guidance.

Inhalation: Remove to clear air area.

Note to Physician: This product contains petroleum distillates. Do not induce vomiting.

5. FIRE FIGHTING MEASURES

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

Flammability Class: Combustible liquid.

Flash Point: 145.4F.

Explosive Limits (% of Volume): Unknown.

Extinguishing Media: Water fog, CO2, dry chemical, foam.

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

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

Combustion Products: Carbon monoxide and carbon dioxide.

Unusual Fire/Explosion Hazards: None known.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken: Eliminate all ignition sources. Soak up spill with absorbent material. Place in container for disposal. Do not allow spill to enter waterways inhabited by aquatic organisms.

Absorbents: Clay granules, sawdust, dirt or equivalent.

Incompatibles: Oxidizers.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes, or clothing when handling, mixing, cleaning up liquid. Wash hands, arms and face thoroughly with soap and water after handling product.

Storage: Store in a cool place. Do not store near heat or open flame.

8. EXPOSURE CONTROL / PERSONAL MEASURES

Exposure Limits: Not established.

Ventilation: General ventilation is sufficient.

Personal Protective Equipment: If prolonged exposure is anticipated it is recommended for users and handlers to wear a MSHA/NIOSH approved vapor/pesticide respirator, impervious gloves, goggles and appropriate clothing to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:	Light yellow to amber oily liquid with faint aliphatic odor.
Boiling Point:	N/A.
Melting Point:	N/A.
Vapor Pressure (mm Hg):	N/A.
Vapor Density (Air = 1):	N/A.
Specific Gravity:	0.789 ± 0.010 (H2O=1).
Bulk Density:	6.6 lbs/gal.
Solubility:	Forms an emulsion in water.
Evaporation Rate:	N/A.
pH:	Not applicable.

10. STABILITY AND REACTIVITY

Stability:	Stable.
Reactivity:	Non-reactive.
Incompatibility w/ Other Materials:	Oxidizers.
Decomposition Products:	Carbon monoxide, carbon dioxide.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY [Based on (RS)-Methoprene Technical]
Methoprene is not considered as an oncogenic compound. The NOEL for non-carcinogen effects in an 18-month mouse study was 250ppm.

DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Based on (RS)-Methoprene Technical]
Methoprene is not a teratogenic compound. The NOEL for maternal and embyrotoxicity in rabbits was 200/mg/kg/day. The NOEL for reproductive effects in rats was 500 ppm. n

MUTAGENICITY [Based on (RS)-Methoprene Technical]
Methoprene is not a mutagenic compound.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE [Based on (RS)-Methoprene

Hydrolysis:	T1/2 > 4 weeks.
Photolysis:	T1/2 < 10 hours.
Soil half life:	~ 10 days.
Water solubility:	< 2 ppm.

ECOTOXICITY [Based on (S)-Methoprene]

Acute Toxicity:	fish:LC50 (trout): 760 ppb, (bluegill): > 370 ppb (S)-Methoprene); **aquatic invertebrates:**LC50 (Daphnia): 360 ppb ((S)-Methoprene).

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 regulated as hazardous by U.S. DOT.

Freight Classification: Insecticides other than poison, NOI; NMFC #102120, Class 60.

15. REGULATORY INFORMATION

CERCLA (Superfund): Not regulated.

RCRA: Not regulated.

SARA 311/312 HAZARD CATEGORIES

Immediate Health: Yes (irritant).

Delayed Health: No.

Fire: Yes (combustible).

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.