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## MATERIAL SAFETY DATA SHEET - PRECOR IGR CONCENTRATE

**Manufacturer:** Wellmark International

**Address:** 1000 Tower Lane, Suite 245, Bensenville, Illinois 60106

**Emergency Phone:** 1-800-248-7763

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

### 1. CHEMICAL PRODUCT INFORMATION

**Product Name:** Precor IGR Concentrate

**Chemical Name/Synonym:** (S)-Methoprene: Isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate

**Chemical Family:** Terpenoid

**Formula:** C<sub>19</sub> H<sub>34</sub> O<sub>3</sub>

**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	1.0%	Not established
Kerosene (petroleum), hydrotreated	64742-47-8		Not established
Inert Ingredients (non-hazardous and/or trade secret)			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 drowsiness.

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

#### ACUTE TOXICITY

**Oral:** LD<sub>50</sub>: >5,100 mg/kg (highest dose level tested)

**Dermal:** LD<sub>50</sub>: >2,100 mg/kg (highest dose level tested)

**Inhalation:** Unknown

#### OTHER TOXICOLOGICAL INFORMATION

**Skin Irritation:** Moderate (rabbit)

**Eye Irritation:** Minimal (rabbit)

**Sensitizer:** Not considered a sensitizer

### 4. FIRST AID MEASURES

**Eye:** Flush immediately with gently flowing water. If irritation persists, get medical attention.

**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:** Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

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

**Flammability Class:** Combustible liquid

**Flash Point:** 145.4°F

**Explosive Limits (% of Volume):** Unknown

**Extinguishing Media:** Water Fog, CO<sub>2</sub>, 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 users and handlers should 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.

**Specific Gravity:** 0.789 ± 0.010 (H<sub>2</sub>O=1)

**Boiling Point:** N/A

**Bulk Density:** 6.6 lbs/gal

**Melting Point:** N/A

**Solubility:** Forms an emulsion in water

**Vapor Pressure (mm Hg):** N/A

**Evaporation Rate:** N/A

**Vapor Density (Air = 1):** N/A

**pH:** Not applicable

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Decomposition Products:** Carbon monoxide, carbon dioxide

**Reactivity:** Non-reactive

**Hazardous Polymerization:** Will not occur

**Incompatibility with**

**Other Materials:** Oxidizers

## 11. TOXICOLOGICAL INFORMATION

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

(S)-Methoprene is not considered as an oncogenic compound. No evidence of compound related gross or histopathologic lesions, organ weight variations, or tumorigenic effects was observed at dietary levels up to and including 5,000 ppm (HDT - highest dose tested) in a 2-year chronic toxicity/oncogenicity study in rats. Also, in mice (18-month chronic toxicity/oncogenicity) (S)-Methoprene produced no compound related effect on body weight, food consumption, or survival rate. No gross pathological lesions or tumorigenic effects were observed at levels up to 2,500 ppm (HDT). An unidentified brown pigment was observed in liver cells of some animals of mid and high dose groups. NOEL in this study for mice was 250 ppm.

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

(S)-Methoprene did not affect the reproductive performance of rats when tested at levels up to 2,500 ppm over a period of 3 generations. The NOEL for reproductive toxicity in rats was 500 ppm. No teratogenic effects were observed in mice when female mice were fed (S)-Methoprene at levels up to 500 mg/kg/day during days 7 to 14 of the gestation period. In rabbits, no teratogenic effects were observed at levels up to 2,000 mg/kg/day, the maximum tolerated dose for maternal toxicity. NOEL for maternal and embryotoxicity in rabbit was 200 mg/kg/day fed to pregnant animals during days 7-18 of the gestation period.

### MUTAGENICITY [Specific to Active Ingredient(s)]

(S)-Methoprene is not a mutagenic compound. It has been found negative in the following tests: a) Ames Test (in vitro), b) Chromosomal aberration in CHO cells (in vitro) and c) Dominant lethal assay (in vivo test for chromosomal damage) test.

### OTHER

U.S. EPA has evaluated other similar products toxicity as part of the U.S. registration process. EPA requires extensive toxicity tests be performed before any chemical is approved for use. Based on their review of test results, they have determined that no significant risk to users, the public, or the environment exists when this product is used as indicated on the product label.

## 12. ECOLOGICAL INFORMATION

### ENVIRONMENTAL FATE (Active Ingredients Only)

**Hydrolysis:** T<sub>1/2</sub>>4 weeks ((S)-Methoprene)

**Photolysis:** T<sub>1/2</sub><10 hours ((S)-Methoprene)

**Soil half life:** ~10 days ((S)-Methoprene)

**Water solubility:** <2 ppm ((S)-Methoprene)

### ECOTOXICITY (Active Ingredients Only)

**Acute Toxicity: fish:** LC<sub>50</sub> (trout): 760 ppb, (bluegill): >370 ppb ((S)-Methoprene)

**aquatic invertebrates:** LC<sub>50</sub> (Daphnia): 360 ppb ((S)-Methoprene)

## 13. DISPOSAL CONSIDERATIONS

Entire contents and rinsate must be used according to label directions. Triple-rinsed containers may be placed in trash. As a waste material, this product may be classified as a hazardous waste due to ignitability. Recommended disposal is by an approved hazardous waste management facility.

## 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:** Regulated due to ignitability

### SARA 311/312 HAZARD CATEGORIES

**Immediate Health:** Yes (irritation)

**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.*

