



Precor®

IGR Concentrate

PREVENTS ADULT FLEA EMERGENCE FOR 7 MONTHS

SPECIMEN LABEL

ACTIVE INGREDIENT:

(S)-Methoprene (CAS #65733-16-6) 1.2%

INERT INGREDIENTS*: 98.8%

Total 100.0%

* Contains petroleum distillates

EPA Reg No. 2724-352

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE ADDITIONAL PRECAUTIONARY STATEMENTS

INTRODUCTION

ZOËCON® PRECOR® IGR CONCENTRATE (PRECOR) acts on the immature life stages of the flea, preventing the adult flea from developing. Flea eggs deposited on, and larvae crawling onto treated areas will not develop into adult fleas. Existing adult fleas and flea pupae are not affected. If a high population of adult fleas (the biting stage) is present, tank-mix with an adulticide of choice that is EPA registered and properly labeled for flea control. To prevent infestations before they start, apply PRECOR prior to flea season.

When applied to surfaces where fleas are found, such as carpets, upholstered furniture, and pet sleeping areas, PRECOR prevents adult flea emergence for up to 7 months. Controlling fleas on pets is important to prevent introduction of adult fleas indoors. If fleas are a problem on pets, treat the pets with an effective EPA registered flea control product.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

FIRST AID

Call a poison control center or doctor immediately for treatment advice.

If in eyes	<ul style="list-style-type: none"> • 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.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-248-7763 for emergency medical treatment information.

NOTE TO PHYSICIAN: This product contains petroleum distillates. If swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

PHYSICAL OR CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

This product may not be used or referenced as a source of ingredient in the formulation, manufacture, or registration of any other products without prior written authorization from Wellmark International.

METHOD AND RATE OF APPLICATION

Prepare a diluted spray solution with a final (S)-Methoprene concentration of approximately 0.007%, by adding 1 ounce of PRECOR to 1 gallon of water. Partially fill the mixing container with 1/2 gallon of water, add PRECOR, shake well, and then add the remaining 1/2 gallon of water. Shake well before each use. When tank-mixing, follow the directions above except add the product to tank mix first, agitate, and then add PRECOR, agitate and complete filling of spray tank, and agitate once more.

Apply at a rate of 1 gallon of the diluted spray solution per 1500 sq ft of surface area with any low pressure sprayer with a fan tip that is typically used for indoor applications. Treat all areas harboring fleas, including carpets, furniture, pet sleeping and bedding

areas, and throw rugs. Treat under cushions of upholstered furniture. Avoid contact with treated surfaces until dry.

When applying to upholstery where staining could be a concern, apply dilution to a small inconspicuous location to determine if possible staining could occur. Generally, PRECOR will not stain areas that would not be stained by water alone.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal. **Storage:** Store in a cool place away from heat or open flame. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Disposal: If empty:** Do not reuse this container. Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

WARRANTY AND CONDITIONS OF SALE

Seller makes no warranty, expressed or implied, concerning the use and handling of this product other than indicated on the label. Buyer assumes all risks of use and handling of this material when such use and handling are contrary to label instructions.

For information, call **1-800-248-7763** or visit our Web site: **www.zoecon.com**.

Always read the label before using the product.

Wellmark International
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Schaumburg, IL

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-3,7,11-trimethyl-2,4-dodecadienoate
Chemical Family: Terpenoid
Formula: C₁₉ H₃₄ O₃
EPA Registration No.: 2724-352
RF Number: 291A

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component (chemical, common name)</u>	<u>CAS Number</u>	<u>Weight</u>	<u>Tolerance</u>
(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 drowsiness.

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 (H ₂ O=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 embryotoxicity 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:	T _{1/2} > 4 weeks.
Photolysis:	T _{1/2} < 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.