



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

- 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

- 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
1501 East Woodfield Road 200W
Schaumburg, Illinois 60173



Zoecon is a Wellmark International Brand.
ZOËCON and PRECOR are registered trademarks of
Wellmark International.
©1998-2007 WELLMARK INTERNATIONAL

November, 2007
Schaumburg, IL



Safety Data Sheet

Section 1: Identification

Product identifier

Product Name

- **Zoecon Precor IGR Concentrate**

Synonyms

- 10290A; 37190B; 37740C; EPA Reg. No.: 2724-352; Zoecon RF-291 Emulsifiable Concentrate

Product Description

- Very light straw-colored, transparent liquid.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

- Insect growth regulator.

Restrictions on use

- **KEEP OUT OF THE REACH OF CHILDREN.** Avoid contact with eyes, skin and clothing. Do not use or store near heat or open flame. Do not take internally. Avoid inhalation of vapors or fumes.

Details of the supplier of the safety data sheet

Manufacturer

- Wellmark International
1501 E. Woodfield Road, Suite 200W
Schaumburg, IL 60173
United States
www.zoecon.com

Emergency telephone number

Manufacturer

- 1-800-248-7763

Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC

Manufacturer (Transportation) • 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

- Aspiration 1
Flammable Liquids 4
Eye Mild Irritation 2B
Skin Irritation 2
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

Label elements

OSHA HCS 2012

DANGER



- Hazard statements** • Causes skin irritation
 May be fatal if swallowed and enters airways
 Combustible liquid
 Causes eye irritation
 May cause drowsiness or dizziness

Precautionary statements

- Prevention** • Wash thoroughly after handling.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Avoid breathing dust, fume, gas, mist, vapors and/or spray.
 Use only outdoors or in a well-ventilated area.
 Keep away from flames and hot surfaces. - No smoking.

- Response** • IF ON SKIN: Wash with plenty of soap and water.
 If skin irritation occurs: Get medical advice/attention.
 Take off contaminated clothing and wash before reuse.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 Do NOT induce vomiting.
 In case of fire: Use appropriate media Foam, water, dry chemical or CO₂ for extinction.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor if you feel unwell.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention.

- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Keep container tightly closed.

Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

Composition		
Chemical Name	Identifiers	%
(s)-Methoprene	CAS:65733-16-6	1.2%
Distillates (petroleum), hydrotreated light	CAS:64742-47-8	78.72%
Poly(oxy-1,2-ethanediyl), alpha-(dodecylphenyl)-omega-hydroxy-	CAS:9014-92-0	<= 16.6%
Other ingredients	NDA	> 3%

Section 4: First-Aid Measures

Description of first aid measures

- Inhalation**
- IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin**
- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
- Eye**
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Ingestion**
- IF SWALLOWED: Immediately call a poison control center or doctor. Aspiration hazard - if swallowed, do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

- Aspiration hazard, causes skin irritation, causes eye irritation, may cause dizziness or drowsiness if inhaled. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

- Notes to Physician**
- Contains petroleum distillate vomiting may cause aspiration pneumonia. Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

- Suitable Extinguishing Media**
- LARGE FIRE: Water spray, fog or regular foam.
SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.

- Unsuitable Extinguishing Media**
- Avoid heavy hose streams.

- Firefighting Procedures**
- LARGE FIRES: Move containers from fire area if you can do it without risk. Stay upwind. Ventilate closed spaces before entering. Do not breathe gas/fumes/vapor/spray.

Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- Combustible liquid. Containers may explode when heated. Liquid will float and may re-ignite on surface of water.
- Hazardous Combustion Products**
- Combustible liquid - may produce carbon dioxide and/or carbon monoxide.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- Do not walk through spilled material. Ventilate enclosed areas. Wear appropriate personal protective equipment, avoid direct contact.

- Emergency Procedures**
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering. Avoid release into the environment.

Environmental precautions

- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- All equipment used when handling the product must be grounded. Stop leak if you can do it without risk.
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.
Use appropriate Personal Protective Equipment (PPE)

Section 7 - Handling and Storage**Precautions for safe handling****Handling**

- Keep away from fire - No Smoking. Avoid breathing fumes. Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact.

Conditions for safe storage, including any incompatibilities**Storage**

- Store locked up. Store in a cool/low-temperature, well-ventilated dry place away from heat and ignition sources. Keep from freezing. Do not store at temperatures exceeding 130°F. Keep container tightly closed.

Incompatible Materials or Ignition Sources

- Heat, sparks, open flame.

Other Information

- See product label for additional information.

Section 8 - Exposure Controls/Personal Protection**Control parameters**

- Exposure Limits/Guidelines**
- No data available.

Exposure controls**Engineering Measures/Controls**

- Use adequate ventilation to remove vapors (fumes, dust, etc.)

Personal Protective Equipment**Pictograms****Respiratory**

- In case of inadequate ventilation, avoid breathing vapors or mist, wear a NIOSH approved chemical cartridge respirator with organic vapor cartridges and a pesticide pre-filter.

Eye/Face

- Wear chemical splash safety goggles.

Hands

- Wear appropriate gloves.

Skin/Body

- If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact.

Environmental Exposure Controls

- Refer to Section 13 - Disposal Considerations.

Other Information

- See product label for additional information.

Section 9 - Physical and Chemical Properties**Information on Physical and Chemical Properties****Material Description**

Physical Form	Liquid	Appearance/Description	Very light straw, transparent liquid.
Color	Very light straw, transparent.	Odor	Faint aliphatic.

Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	4.92 (10% in Type 1 Water)
Specific Gravity/Relative Density	0.82 (6.8 lb/gal)	Water Solubility	Insoluble
Viscosity	< 100 Centipoise (cPs, cP) or mPas		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	196°F (91°C)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- Non-reactive under normal handling and storage conditions.

Chemical stability

- Stable

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Direct sunlight. Do not freeze. Excessive heat >130°F. Heat, sparks, open flame, other ignition sources, and oxidizing conditions. Strong oxidizers.

Incompatible materials

- Store away from oxidizers.

Hazardous decomposition products

- Carbon dioxide and possibly carbon monoxide.

Section 11 - Toxicological Information

Information on toxicological effects

	CAS	
Zoecon Precor IGR Concentrate	NDA	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5100 mg/kg; Inhalation-Rat LC50 • 5.37 mg/L 4 Hour (s); Skin-Rabbit LD50 • >2100 mg/kg; Irritation: Eye-Rabbit • Mild irritation; Skin-Rabbit • Moderate irritation

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral -

	Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Aspiration 1
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Mild Irritation 2B

Potential Health Effects

Inhalation

- Acute (Immediate) • May cause drowsiness and dizziness.
- Chronic (Delayed) • No data available

Skin

- Acute (Immediate) • Causes skin irritation.
- Chronic (Delayed) • No data available

Eye

- Acute (Immediate) • Causes eye irritation.
- Chronic (Delayed) • No data available

Ingestion

- Acute (Immediate) • Aspiration hazard - small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.
- Chronic (Delayed) • No data available

Section 12 - Ecological Information

Toxicity

Component	CAS	Data
(s)-Methoprene (1.2%)	65733-16-6	Crustacea: NOEC Crustacea <i>Mysid shrimp</i> 0.014 mg/L [Chronic]; 96 Hour(s) LC50 Crustacea <i>Mysid shrimp</i> 0.11 mg/L [Acute]; 48 Hour(s) LC50 Crustacea <i>Daphnia magna</i> 0.36 mg/L [Acute]; Fish: 96 Hour(s) LC50 Fish <i>Rainbow Trout</i> 0.76 mg/L [Acute]; 96 Hour(s) LC50 Fish <i>Blue Gill</i> >0.37 mg/L [Acute]; NOEC Fish <i>Fathead minnow</i> 0.048 mg/L [Chronic]

Persistence and degradability

- No data available.

Bioaccumulative potential

- No data available.

Mobility in Soil

- No data available

Other adverse effects

Potential Environmental Effects

- No data available.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Never place unused product down any indoor or outdoor drain.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. See product label for disposal instructions.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	1268	Petroleum distillates, n.o.s.	3	III	Not Applicable
IMO/IMDG	1268	Petroleum distillates, n.o.s.	3	III	Not Applicable
IATA/ICAO	1268	Petroleum distillates, n.o.s.	3	III	Not Applicable

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Other information

IMO/IMDG • No data available

IATA/ICAO • No data available

Key to abbreviations

= N/A = Not applicable.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute

FIFRA – Pesticide Labeling

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION

Precautionary Statements • KEEP OUT OF THE REACH OF CHILDREN.

Hazards to Humans and Domestic Animals • **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 • 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 • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. 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

Inventory		
Component	CAS	TSCA
(s)-Methoprene	65733-16-6	No
Distillates (petroleum), hydrotreated light	64742-47-8	Yes
Poly(oxy-1,2-ethanediyl), alpha-(dodecylphenyl)-omega-hydroxy-	9014-92-0	Yes

Section 16 - Other Information

- Last Revision Date** • 20/July/2015
- Preparation Date** • 20/July/2015
- Disclaimer/Statement of Liability**
- The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.