

**MATERIAL SAFETY DATA SHEET**  
**PRECOR® PLUS FOGGER**

**Manufacturer:** Wellmark International  
**Address:** 1100 East Woodfield Road, Suite 500 Schaumburg, IL 60173  
**Emergency Phone:** 1-800-248-7763  
**Transportation Emergency Phone:** CHEMTREC: 1-800-424-9300

**1. CHEMICAL PRODUCT INFORMATION**

**Product Name:** Precor® Plus Fogger  
**Chemical Name/Synonym:** (S)-Methoprene: Isopropyl (2E, 4E, 7S)- 11-methoxy-3,7,11-trimethyl- 2,4-dodecadienoate, and Permethrin: [(3-phenoxyphenyl) methyl (+/-) cis/trans-3-(2,2-dichloroethyl)-2,2-dimethylcyclopropanecarboxylate] (cis/trans ratio: min. 35% (+/-) cis and max. 65% (+/-) trans.  
**Chemical Family:** Terpenoid/Pyrethroid  
**Formula:** C<sub>21</sub> H<sub>20</sub> C<sub>12</sub> O<sub>3</sub> / C<sub>19</sub> H<sub>34</sub> O<sub>3</sub>  
**EPA Registration No.:** 2724-454  
**RF Number:** 9026.

**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	0.09%	Not established
Permethrin: (3-phenoxyphenyl) methyl (+/- ) cis/trans-3- 2,2-dichloroethyl)-2,2-dimethylcyclopropanecarboxylate	52645-53-1	0.58%	Not established
Inert ingredients: (nonhazardous and/or trade secret):		99.33%	
Acetone	67-64-1		750 ppm (ACGIH TWA 1000ppm (OSHA TWA))

**3. HAZARD INFORMATION**

**PRECAUTIONARY STATEMENT**

Caution: Keep out of the reach of children. Harmful if inhaled, swallowed or absorbed through the skin. Avoid breathing vapors or spray mist. May cause eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after using. In case of contact, immediately flush eyes or skin with plenty of water. Obtain medical attention if irritation persists. Avoid contamination of food, foodstuffs and food preparation areas. Leave room or house at once after activating fogger.

## SIGNS AND SYMPTOMS OF OVEREXPOSURE

<b>PRIMARY ROUTE OF ENTRY</b>	<b>Dermal/Eye:</b> No	<b>Oral:</b> No	<b>Inhalation:</b> Yes
<b>ACUTE TOXICITY</b>	<b>Oral:</b> LD50 (rat): >34,000 mg/kg (highest dose tested)(Based on (S)-Methoprene)		
	<b>Dermal:</b> LD50 (rabbit): >2000 mg/kg (highest dose tested) (Based on (S)-Methoprene)		
	<b>Inhalation:</b> LC50 (rat): >2 mg/kg (highest dose tested)		

## OTHER TOXICOLOGICAL INFORMATION

<b>Skin Irritation:</b>	Non-irritant
<b>Eye Irritation:</b>	Mild irritant
<b>Sensitizer:</b>	Sensitizer

## 4. FIRST AID MEASURES

<b>Eye:</b>	Flush eyes with plenty of water. Obtain medical attention if irritation persists.
<b>Skin:</b>	Remove contaminated clothing and wash affected areas with soap and water. Get medical attention if irritation persists.
<b>Ingestion:</b>	Call a physician or Poison Control Center immediately. Do not induce vomiting.
<b>Inhalation:</b>	Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. Call a physician if effects occur.
<b>Note to Physician:</b>	May present an aspiration hazard.

## 5. FIRE FIGHTING MEASURES

<b>NFPA Rating:</b>	<b>Health: 2</b>	<b>Fire: 4</b>	<b>Reactivity: 0</b>
<b>Flammability Class:</b>	Level 1 aerosol		
<b>Flash Point:</b>	17(F) (-8.3(C) (propellant-free portion of concentrate)		
<b>Explosive Limits (% of Volume):</b>	LEL = 3.4, UEL = 18.0 (based on Dimethyl ether)		
<b>Extinguishing Media:</b>	Water spray, foam, dry chemical, CO2		
<b>Special Protective Equipment:</b>	Firefighters should wear full protective clothing including self-contained breathing apparatus.		
<b>Fire Fighting Procedures:</b>	Use water to keep fire exposed containers cool. Do not allow run-off to enter waterways or sewers. Contents under pressure.		
<b>Combustion Products:</b>	Oxides of carbon.		
<b>Unusual Fire/Explosion Hazards:</b>	Extremely flammable. Contents under pressure. Keep away from fire, sparks, and heated surfaces. Do not puncture or incinerate container. Exposure to temperatures above 130 F may cause bursting.		

## 6. ACCIDENTAL RELEASE MEASURES

<b>Steps to be taken:</b>	Absorb spills with an inert material. Place in container for disposal. Do not allow spill to enter waterways or sewers.
<b>Absorbents:</b>	Clay granules, sawdust, dirt, or equivalent.
<b>Incompatibles:</b>	Strong oxidizers

## 7. HANDLING AND STORAGE

**Handling:** Wash hands before eating or handling food. Avoid contact with skin, eyes, or clothing. Newspaper should be spread on the floor for several feet around area of release.

**Storage:** Store in a cool, dry, area away from heat or open flame.

## 8. EXPOSURE CONTROL / PERSONAL MEASURES

**Exposure Limits:** Acetone: 750 ppm (ACGIH TWA) 1000ppm (OSHA TWA)

**Ventilation:** General ventilation should be sufficient. Users should leave building when fogger is activated.

**Personal Protective Equipment:** If prolonged exposure is expected, wear a MSHA/NIOSH approved organic vapor/pesticide respirator, impervious gloves, goggles, and other appropriate clothing to avoid skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and Odor:** Clear, light straw colored or almost colorless liquid. Characteristic sweetish, ethereal odor.

**Boiling Point:** N/A

**Melting Point:** N/A

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

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

**Specific Gravity:** 0.80 (with propellant)

**Bulk Density:** 7.87 lbs./gal. (Propellant-free concentrate)

**Solubility:** Appreciable

**Evaporation Rate:** N/A

**pH:** 8.2

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Reactivity:** Non-reactive

**Incompatibility w/ Other Materials:** Strong oxidizers

**Decomposition Products:** None except oxides of carbon from incomplete combustion.

**Hazardous Polymerization:** Will not occur

## 11. TOXICOLOGICAL INFORMATION

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

(S)-Methoprene is not considered an oncogenic compound. [Based on (RS)-Methoprene Technical

Permethrin showed no evidence of oncogenicity. A NOEL of 100 mg/kg was based on decreased body weight gain in the rat oncogenicity study.

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

Methoprene is not a teratogenic compound. [Based on (RS)-Methoprene Technical.

Permethrin showed no evidence of developmental or reproductive effects. The NOEL was determined to be 180 mg/kg in the rat study.

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

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

## 12. ECOLOGICAL INFORMATION

### ENVIRONMENTAL FATE [Active Ingredients Only] (Based on RS-Methoprene)

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

### ECOTOXICITY [Active Ingredients Only] (Based on S-Methoprene)

**Acute Toxicity:** LC50 (trout): 760ppb, (Bluegill): >370ppb  
**aquatic invertebrates:** LC50 (Daphnia): 360 ppb

## 13. DISPOSAL CONSIDERATIONS

**Disposal:** Don not puncture or incinerate. **If Empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency or 1-800-CLEANUP for disposal instructions.

## 14. TRANSPORT INFORMATION

**DOT49CFR Description:** Consumer Commodity ORM-D  
**Freight Classification:** Insecticides, Animal NOI o/t Poison NMFC I-102120 class 60

## 15. REGULATORY INFORMATION

**CERCLA (Superfund):** Acetone: Reportable Quantity = 5000 lbs.  
**RCRA:** Regulated due to ignitability.

### SARA 311/312 HAZARD CATEGORIES

**Immediate Health:** Yes (irritant, sensitization)  
**Delayed Health:** No  
**Fire:** Yes  
**Sudden Pressure:** Yes  
**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.*