

## **MATERIAL** SAFETY DATA SHEET V.2010

# Precor Plus Fogger

**1. Product:** Precor Plus Fogger

**2. Registration No:** (1P147 AE). Agriculture, Fisheries and Conservation Department. Hong Kong.

3. Manufacturer

Wellmark International, U.S.A.

4. Emergency Contact

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5. 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: [(3phenoxyphenyl) methyl (+/-) cis/trans

-3-(2,2-dichloroetheyl)-2, 2-

dimethylcyclopropanecarboxylate] (cis / trans ratio: min. 35% (+/-) cis and max.

65% (+/-) trans.

Chemical Family Terpenoid / Pyrethroid

C 21 H20 C12 O3 / C19 H34 O3 Formula

EPA Registration No. 2724-454 RF Number 9626

6. Composition / Information on ingredients

Component (chemical, common name) CAS Weight Tolerance

65733-16-6 0.09% (S)-Methoprene: Isopropyl Not established

(2E,4E,7S)-11-Methoxy-3,7, 11-trimethyl-2,4-dodecadienoate

Permethrin: (3-phenoxyphenyl) 52645-53-1 0.58% Not established

methyl (+/-) cis/trans-3-2,2dichloroetheyl)-2, 2-

dimethycyclopropanecarboxylate

Inert Ingredients (nonhazardous) 99.33%

and / or trade secret)

Acetone 67-64-1 750 ppm

No.

(ACGIH TWA 1000 Ppm (OSHA TWA))

#### 7. Hazard Information

PRECAUTIONARY STATEMENT

CAUTION: Keep out of reach of children. Harmful if inhaled, swallowed or absorbed through the skin. Avoid breathing vapors or spray mist. May cause eye irritation. Avoid contract 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

Primary Route of Entry: Dermal Eye: No Oral: No Inhalation: Yes

ACUTE TOXICITY:

Oral : LD50 (rats): > 34,000mg/kg (HDT) (Based on

(S)-Methoprene)

: LD50 (rabbits): >2,000mg/kg (HDT) (Based on Dermal

(S)-Methoprene)

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

OTHER TOXICOLOGICAL INFORMATION

**Skin Irritation** Non-irritant Eve Irritation Mild irritant Sensitizer : Sensitizer

8. Fire-Fighting Measures

NFPA Rating : Health: 2 Fire: 4 Reactivity: 0

Flammability Class : Level 1 aerosol

Flash Point : 17 (F) (-8.3(C) (propellant-free portion

of concentrate)

**Explosive Limits** 

(% of Volume) : LEL=3.4, UEL=18.0 (based on

Dimethyl ether)

: Water spray, foam, dry chemical, CO2 Extinguishing Media

Special Protective Equipment: Firefighters should wear full protective

clothing including self contained

breathing apparatus.

Fire Fighting Procedures : Use water to keep fire exposed

containers cool. Do not allow run-off to enter waterways or sewers. Contents under pressure.

: Oxides of carbon.

Combustion Products

Unusual Fire/Explosion

: Extremely flammable. Contents under Hazards

> pressure. Keep away from fire, sparks, and heated surfaces. Do not puncture or incinerate container. Exposure to temperatures above 130F may cause

bursting.

9. First Aid Measures

Eye : 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

Skin : Remove contaminated clothing and wash affected

areas with soap and water. Get medical attention

if irritation persists.

Ingestion: Call a physician or Poison Control Centre

immediately. Do not induce vomiting.

Inhalation: Remove victim to fresh air. If not breathing give

artificial respiration, preferably mouth-to-mouth.

Call a physician if effects occur.

Note to Physician: May present an aspiration hazard.

10. Accidental Release Measures

Steps to be taken: Absorb spills with an inert material. Place in

container for disposal. Do not allow spill to

enter waterways or sewers.

Clay granules, sawdust, dirt, or equivalent. Absorbents

Incompatibles Strong oxidizers.





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#### 11. 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 or

release.

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

#### 12. 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

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.

### 13. Physical and Chemical Properties

Appearance and Odor : Clear, light straw colored or

almost colorless liquid.

Characteristic sweetish, etheral

odor

**Boiling Point** N/A Melting Point : N/A

Vapor Pressure (mm Hg) : N/A Vapor Density (Air = 1) : N/A

: 0.08 (with propellant) Specific Gravity

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

concentrate)

Solubility Appreciable

**Evaporation Rate** N/A pН 8.2

### 14. Stability and Reactivity

Stability

Reactivity : Non-reactive

Incompatibility w/ Other

Materials : Strong oxidizers

Decomposition Products : None except oxides of carbon from

incomplete combustion.

Hazardous Polymerization: Will not occur

#### 15. Toxicological Information

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

(S)-Methoprene is not considered as 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

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# 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 ffects. The NOEL was determined to be 180 mg/kg in the rat study. e

<u>MUTAGENICITY</u> [Specific to Active Ingredient(s)]

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

(RS)-Methoprene Technical]

### 16. Ecological Information

ENVIRONMENTAL FATE [Active Ingredients Only](Based on

(S)-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

#### 17. Disposal Considerations

Disposal: Do 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.

#### 18. Transport Information

DOT49CFR Description : Consumer Commodity ORM-D Freight Classification Insecticides, Animal NOI o/t Poison

NMFC 1-102120 class 60

#### 19. Regulatory Information

CERCLA (Superfund): Acetone: Reportable Quantity = 5000 lbs.

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.