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MATERIAL SAFETY DATA SHEET - PRECOR® PLUS FOGGER

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® 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: C₂₁ H₂₀ C₁₂ O₃/C₁₉ H₃₄ O₃
EPA Registration No.: 2724-454-11785
RF Number: 9026.

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	0.09%	Not established
Permethrin: [(3-(phenoxyphenyl)methyl(+/-)cis/trans-3-2,2-dichloroethyl)-2,2-dimethylcyclopropanecarboxylate]	52645-53-1	0.58%	Not established
Dimethyl ether	115-10-6	43.50%	Not established
Acetone	67-64-1	21.50%	750 ppm (ACGIH and OSHA TWA)

3. 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 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. REMOVE PETS AND BIRDS AND COVER AND UNPLUG AQUARIUMS WHILE SPRAYING. REMOVE ALL MOTOR VEHICLES BEFORE USING IN GARAGES.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

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

ACUTE TOXICITY

Oral: LD₅₀ (rat): >5000 mg/kg (highest dose tested)
Dermal: LD₅₀ (rabbit): >2000 mg/kg (highest dose tested)
Inhalation: LC₅₀ (rat): >2 mg/kg (highest dose tested)

OTHER TOXICOLOGICAL INFORMATION

Skin Irritation: Non irritant
Eye Irritation: Mild irritant
Sensitizer: Sensitizer

4. FIRST AID MEASURES

Eye: Flush eyes with plenty of water. Obtain medical attention if irritation persists.

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 Center 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.

5. 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)

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

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.

Combustion Products: Oxides of carbon

Unusual Fire/Explosion Hazards: 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

Steps to be Taken: Absorb spills with an inert material. Place in container for disposal. Do not allow spill to enter waterways or sewers.

Absorbents: Clay granules, sawdust, dirt, or equivalent.

Incompatibles: 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 and OSHA TWA)

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

Personal Protective Equipment: If extensive 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 with

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. No evidence of compound related gross or histopathic lesions, organ weight variations, or tumorigenic effects were observed at dietary levels up to and including 5,000 ppm (HDT-highest dose tested) in a 2-year chronic toxicity/oncogenic study in rats. 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)]

(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. In rabbits, no teratogenic effects were observed at levels up to 2,000 mg/kg/day, the maximum tolerated dose for maternal toxicity. 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. 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 vitro test for chromosomal damage) test. Permethrin was determined to be non-mutagenic in the following studies: Ames Test (in vitro), Chromosomal Aberration, and Host Mediated.

OTHER

U.S. EPA has evaluated this product's toxicity as part of the U.S. registration process. EPA requires extensive toxicity tests be performed before any pesticide 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: N/A

Photolysis: N/A

Soil half life: N/A

Water solubility: N/A

ECOTOXICITY (Active Ingredients Only)

Acute Toxicity: fish: This product is not intended for aquatic environments; pyrethrins are potentially toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Replace cap, wrap container in several layers of newspaper and discard in trash. Do not puncture or incinerate.

14. TRANSPORTATION 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 (irritation, 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.

