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MATERIAL SAFETY DATA SHEET
PRECOR®2000™ PREMISE SPRAY II

Manufacturer: Wellmark International
Address: 1000 Tower Lane, Suite 245 Bensenville, IL 60106
Emergency Phone: 1-800-248-7763
Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: Precor® 2000™ Premise Spray II
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-dimethyl cyclopropanecarboxylate]
Chemical Family: Terpenoid/Pyrethroid
Formula: C₂₁ H₂₀ C₁₂ O₃ / C₁₉ H₃₄ O₃
EPA Registration No.: 2724-483
RF Number: 9404.002

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%	
Permethrin: [(3-phenoxyphenyl)methyl(+/-)cis-trans-3- (2,2-dichloroethyl)-2,2-dimethyl cyclopropanecarboxylate	52645-53-1	0.50%	
Inert ingredients (non-hazardous and/or trade secret):		99.41%	
Propane	24-98-6		1000 ppm (OSHA TWA), simple asphyxiant (ACGIH)

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENT

Keep out of the reach of children. Harmful if swallowed. May be absorbed through skin. Avoid inhalation of spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly after handling and before smoking or eating. Avoid contamination of foodstuffs. **This product is not for use on humans.** Vacate room after treatment and ventilate before reoccupying. Do not allow children or pets to contact treated areas until surfaces are dry.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

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

ACUTE TOXICITY

Oral: LD50 (rat): >5,000 mg/kg (highest dose tested) (Based on (S) Methoprene)

Dermal: LD50 (rabbit): >2,000 mg/kg (highest dose tested) (Based on (S) Methoprene)

Inhalation: LD50 (rat): >4.84 mg/l (highest dose tested)

OTHER TOXICOLOGICAL INFORMATION

Skin Irritation: mild irritant

Eye Irritation: mild irritant

Sensitizer: not a sensitizer

4. FIRST AID MEASURES

Eye: Flush with plenty of water. Contact a physician if irritation persists.

Skin: Wash affected area immediately with soap and water. Get medical attention if irritation persists.

Ingestion: Get medical attention.

Inhalation: Remove affected person to fresh air. Apply artificial respiration if indicated.

Note to Physician:

5. FIRE FIGHTING MEASURES

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

Flammability Class: Level 1 aerosol

Flash Point: Negative - no flash at less than 90° (C) (propellant-free concentrate)

Explosive Limits (% of Volume): LEL: 1.8, UEL: 9.5; (propellant-free concentrate)

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

Special Protective Equipment: Firefighters should wear full protective clothing including self-contained breathing apparatus.

Fire Fighting Procedures: Contents under pressure. Exposure to temperatures above 130 F may cause bursting. Use water to keep fire exposed containers cool. Do not allow run-off water to enter waterways or sewers.

Combustion Products: Oxides of carbon

Unusual Fire/Explosion Hazards: Contents under pressure. Do not puncture containers. Exposure to temperatures above 130° F may cause bursting.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken: Absorb spills with an inert material and put in container for disposal.

Absorbents: Clay granules, sawdust, dirt or equivalent.

Incompatibles: Strong oxidizers

7. HANDLING AND STORAGE

Handling: Do not puncture or incinerate container. Do not use in food areas of food handling establishments, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation.

Storage: Store in a cool, dry area. Do not store near heat or open flame. Exposure to temperatures above 130° F may cause bursting.

8. EXPOSURE CONTROL / PERSONAL MEASURES

- Exposure Limits:** Propane: 1000 ppm (OSHA TWA), simple asphyxiant (ACGIH)
- Ventilation:** Use in a well ventilated area.
- Personal Protective Equipment:** If prolonged exposure is anticipated, it is recommended for handlers to 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:** Turbid to opaque, almost colorless emulsion
- Boiling Point:** N/A
- Melting Point:** N/A
- Vapor Pressure (mm Hg):** N/A
- Vapor Density (Air = 1):** N/A
- Specific Gravity:** 0.95 at 20° F (4° C) (propellant-free concentrate); 0.82 at 20° F (4° C) (end-use aerosol)
- Bulk Density:** N/A
- Solubility:** N/A
- Evaporation Rate:** N/A
- pH:** 7.89 (propellant-free concentrate)

10. STABILITY AND REACTIVITY

- Stability:** Stable
- Reactivity:** Non-reactive
- Incompatibility w/ Other Materials:** Strong oxidizers
- Decomposition Products:** None except oxides of carbon
- Hazardous Polymerization:** Will not occur

11. TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY [Specific to Active Ingredient(s)]

Methoprene is not considered as an oncogenic compound. The NOEL for non-carcinogen effects in an 18-month mouse study was 250ppm. Based on (RS) Methoprene

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

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

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. Based on (RS) Methoprene

MUTAGENICITY [Specific to Active Ingredient(s)]

Methoprene is not a mutagenic compound. Based on (RS) Methoprene.

Permethrin was determined to be non-mutagenic in the following studies: Ames Test (in vitro), Chromosomal Aberration, and Host Mediated

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.

Acute Toxicity: aquatic invertebrates: Pyrethroids are potentially toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Wrap container in several layers of newspaper and dispose of in trash. Do not puncture or incinerate. This product is toxic to fish. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters. As a waste material, this product may be classified as a hazardous waste due to ignitability. Recommended disposal is by an EPA approved hazardous waste management facility.

14. TRANSPORT INFORMATION

DOT49CFR Description: Consumer Commodity, ORM-D

Freight Classification: Insecticides, O/T Poison N.O.S., NMFC I - 102120

15. REGULATORY INFORMATION

CERCLA (Superfund): Not regulated by CERCLA

RCRA: Regulated due to ignitability

SARA 311/312 HAZARD CATEGORIES

Immediate Health: Yes (irritant)

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.