

MATERIAL SAFETY DATA SHEET
PRECOR® 2000™ PLUS PREMISE SPRAY

Manufacturer: Wellmark International
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Emergency Phone: 1-800-950-4783
Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: Precor® 2000™ Plus Premise Spray
Chemical Name/Synonym: (S)-Methoprene; isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate, Permethrin; [(3-phenoxyphenyl)methyl(+/-)cis-trans-3-(2,2-dichloroethyl)-2,2-dimethyl cyclopropanecarboxylate], Phenothrin: [3-phenoxyphenyl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl cyclopropanecarboxylate], Piperonyl Butoxide; 5-[2-(2-butoxyethoxy)ethoxymethyl]-6-propyl-1,3-benzodioxole, N-octyl bicycloheptane dicarboximide; N-(2-ethylhexyl)-5-norbornene-2,3-dicarboximide
Chemical Family: Terpenoid/Pyrethroid
Formula: C₂₁ H₂₀ C₁₂ O₃ / C₁₉ H₃₄ O₃ / C₂₃ H₂₆ O₃ / C₁₉ H₃₀ O₅ / C₁₇ H₂₅ N O₂
EPA Registration No.: 2724-490
RF Number: 9910

2. COMPOSITION / INFORMATION ON INGREDIENTS

	<u>CAS</u> <u>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	0.085%	
Permethrin: [(3-phenoxyphenyl)methyl(+/-)cis-trans-3-(2,2-dichloroethyl)-2,2-dimethyl cyclopropanecarboxylate]	52645-53-1	0.350%	
Phenothrin: [3-phenoxyphenyl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl cyclopropanecarboxylate]	26002-80-2	0.300%	
Piperonyl butoxide	51-03-6	1.400%	Not established
N-Octyl bicycloheptene dicarboximide	113-48-4	2.000%	Not established
Inert ingredients (non-hazardous and/or trade secret):		95.865%	
Propane	24-98-6		1000 ppm (OSHA TWA), simple asphyxiant (ACGIH)

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENT

CAUTION: Keep out of the reach of children. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Avoid contamination of foodstuffs. This product is not for use on humans. Keep children out of areas during treatment. Vacate room after treatment and ventilate until all surfaces are dry before reoccupying. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Symptoms of intoxication to permethrin are hypersensitivity, tremors, diarrhea. Intoxication to solvents may cause dizziness, headache, nausea, narcosis, eye irritation, G.I. tract irritation, and cardiac arrhythmia in certain cases.

PRIMARY ROUTE OF ENTRY	Dermal/Eye: Yes	Oral: No	Inhalation: Yes
ACUTE TOXICITY	Oral: LD50 (rat): >5,000 mg/kg body weight		
	Dermal: LD50 (rabbit): >5,000 mg/kg body weight		
	Inhalation: LC50 (rat): >5.19 mg/L in air (S)-Methoprene		

OTHER TOXICOLOGICAL INFORMATION

Skin Irritation:	Moderately irritating to the skin
Eye Irritation:	Not an eye irritant
Sensitizer:	Weak sensitizer

4. FIRST AID MEASURES

Eye:	Hold eye open and flush slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Ingestion:	Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
Inhalation:	Remove affected person to fresh air. Apply artificial respiration if indicated.
Note to Physician:	Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

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. Do not store or transport below 32° F.

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: 0.96 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 an oncogenic compound. The NOEL for non-carcinogen effects in an 18-month mouse study was 250ppm (based on (R,S)-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 [Based on (R,S) Methoprene Technical]

Methoprene is not a teratogen. The NOEL for maternal and embryotoxicity in rabbits was 200 mg/kg/day. The NOEL for reproductive effects in rats was 500 ppm.

Permethrin is not a teratogen. Rats were fed dose levels of 20 and 100 mg/kg diet in a 3-generation study. There was no effect on mortality, mating, pregnancy or fertility. Pup survival and growth were unaffected. Permethrin does not adversely affect reproduction in the rat.

MUTAGENICITY [Specific to Active Ingredient(s)]

Methoprene is not a mutagen. [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: This product is not intended for aquatic environments.
Pyrethroids are potentially toxic to aquatic organisms

13. DISPOSAL CONSIDERATIONS

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.

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.