

MATERIAL SAFETY DATA SHEET

Pre-Strike™ Outdoor Fogger

Manufacturer: Wellmark International
Address: 1501 E. Woodfield Rd., Suite 200 West, Schaumburg, IL 60173
Emergency Phone: 1-800-950-4783
Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: Pre-Strike™ Outdoor Fogger
Chemical Name/Synonym: Etofenprox: 2-(4-ethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether
Tetramethrin: cyclohex-1-ene-1,2-dicarboximidomethyl chrysanthemate
Piperonyl butoxide: 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether
Chemical Family: Pyrethroid
Formula: C₂₅H₂₈O₃ / C₁₉H₂₅NO₄ / C₁₉H₃₀O₅
EPA Registration No.: 2724-677
RF Number: 2035F

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component (chemical, common name)</u>	<u>CAS Number</u>	<u>Weight</u>	<u>Tolerance</u>
Etofenprox	80844-07-1	0.50%	not est.
Tetramethrin	7696-12-0	0.20%	not est.
Piperonyl Butoxide	51-03-6	1.00%	not est.
Acetone	67-64-1	10.00%	1000 ppm TWA (OSHA) 500 ppm TWA (ACGIH)
Hydrocarbon Propellant Blend:		20.00%	
Propane	74-98-6		1000 ppm*
Isobutane	75-28-5		800 ppm*
n-Butane	106-97-8		800 ppm*
1,1-Difluoroethane	75-37-6		1000 ppm(AEL, dupont)

* established by NIOSH

3. HAZARD INFORMATION

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION
CAUSES MODERATE EYE IRRITATION. AVOID CONTACT WITH EYES OR CLOTHING.
WASH HANDS THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND
BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO, OR USING THE
TOILET. REPEATED EXPOSURE TO ETOFENPROX CAN CAUSE SKIN IRRITATION.**

SIGNS AND SYMPTOMS OF OVEREXPOSURE

No known health conditions are aggravated by exposure to this product.

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

ACUTE TOXICITY **Oral:** No specific hazard identified.
 Dermal: No specific hazard identified.
 Inhalation: No specific hazard identified.

OTHER TOXICOLOGICAL INFORMATION

Skin Irritation: Avoid contact with skin. Slightly irritating.
Eye Irritation: Avoid contact with eyes. Causes moderate eye irritation.
Sensitizer: Not a sensitizer.

4. FIRST AID MEASURES

- If in eyes:**
- 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 rinsing eyes.
 - Call a poison control center or doctor for treatment advice.
- If swallowed:**
- Immediately call a poison control center or doctor.
 - Do not induce vomiting unless told to by a poison control center or doctor.
 - Do not give **any** liquid to the person.
 - Do not give anything to an unconscious person.

Note to Physician: Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

5. FIRE FIGHTING MEASURES

NFPA Rating: **Health: 2** **Fire: 3** **Reactivity: 0**
Flammability Class: Level 2 Aerosol.
Flash Point: Not established.
Explosive Limits (% of Volume): Not determined.
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: Products of combustion are principally carbon dioxide, carbon monoxide, and water.
Unusual Fire/Explosion Hazards: None known

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: None known.

7. HANDLING AND STORAGE

Handling: Wash hands with soap and water after handling material. Avoid contact with skin, eyes, or clothing.

Storage: Do not store above 130°F. Do not store near open flames. Store in a cool, dry place away from children. Do not contaminate water, food, or feed, by storage.

8. EXPOSURE CONTROL/PERSONAL MEASURES

Exposure Limits: Acetone: 500 ppm (ACGIH TWA) 1000 ppm (OSHA TWA). Propane: 1000 ppm (ACGIH TWA and OSHA TWA). Isobutane and n-butane: 800 ppm (OSHA TWA).

Ventilation: Fogger is to be used for outdoor use only.

Personal Protective Equipment: None required; however, professional applicators (those with repeated and extended exposure) should wear goggles at a minimum when working with this product and should avoid contact with skin, eyes or clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Concentrate is a white liquid emulsion.

Boiling Point: Not known

Melting Point: Not applicable.

Vapor Pressure (mm Hg): (PSIG @ 70°F) Not Det.

Vapor Density (Air = 1): Not known.

Specific Gravity: Concentrate: 0.9.

Bulk Density: Concentrate: 7.5 lbs/gallon.

Solubility: In Water: Miscible.

Evaporation Rate: (Water): 1.0.

pH: Not known.

10. STABILITY AND REACTIVITY

Stability: Stable.

Reactivity: None known.

Incompatibility w/ Other Materials: None known.

Decomposition Products: Products of combustion are principally carbon dioxide, carbon monoxide, and water, with trace decomposition of C1-NO_x, PO_x, and SO_x.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Acute oral toxicity: LD₅₀ >5000 mg/kg

Acute dermal toxicity: LD₅₀ >5000 mg/kg

Acute inhalation: LC₅₀ >2.03 mg/L

Skin irritation: Slightly irritating

Eye irritation: Moderately irritating

The product is not a dermal sensitizer

CHRONIC TOXICITY [Specific to Active Ingredient(s)]

Etofenprox In rats the target organs are the liver and thyroid. The NOAEL for chronic toxicity is 3.7 mg/kg/day for male rats. The target organ in mice is the kidney. The NOAEL is 3.1 mg/kg/day for mice.

Carcinogenicity: NTP: No IARC: No OSHA: No

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Tetramethrin is classified by EPA as Class C (possible human carcinogen).

Piperonyl butoxide: An increase in the number of benign liver tumors in mice fed piperonyl butoxide technical at doses which far exceeded any anticipated daily human intake. Independent and industry toxicology experts have reviewed the data and agree that the findings of the study do not indicate a health risk to humans.

Carcinogenicity: NTP: No IARC: No OSHA: No

SUBCHRONIC TOXICITY [Specific to Active Ingredient(s)]

Etofenprox is a mild skin irritant after 4-weeks of treatment. No systemic toxicity from dermal exposure was observed at doses up to 1000 mg/kg/day.

Tetramethrin in rats the NOEL for 13-week inhalation study is $>5.03 \text{ mg/m}^3$ and for 6-month feeding study is 1500 ppm. In dogs the NOEL for a 90-day feeding study is $>5000 \text{ ppm}$.

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

Etofenprox is not a teratogen. It does not have adverse effects on reproduction.

Tetramethrin is not a teratogen. It does not have adverse effects on reproduction.

Piperonyl butoxide: There were no birth defects or adverse effects on reproductive parameters in tests with rats or rabbits. It is not considered to be teratogenic.

MUTAGENICITY [Specific to Active Ingredient(s)]

Etofenprox is not a mutagen.

Tetramethrin is not a mutagen when tested for gene mutations, Chromosomal aberrations, and unscheduled DNA synthesis.

Piperonyl butoxide is not genotoxic in several tests including the Ames assay, chromosome aberrations in Chinese hamster ovary (CHO) cells, CHO/HGPRT assay with S9 activation, and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE

Hydrolysis: Not determined.

Photolysis: Not determined.

Soil half life: Not determined.

Water solubility: Not determined.

ECOTOXICITY [Active Ingredients Only]

Acute Toxicity: This product is highly toxic to fish. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent areas.

Etofenprox

Acute Toxicity: **Rainbow trout:** $LC_{50} = 3.3 \text{ ppb}$
Bluegill: $LC_{50} = 8.5 \text{ ppb}$

Tetramethrin

Acute Toxicity: **Rainbow trout:** $LC_{50} = 43.5 \text{ ppb}$
Bluegill: $LC_{50} = 157.3 \text{ ppb}$
Daphnia: $LC_{50} > 300 \text{ mg/L}$

Piperonyl butoxide

Acute Toxicity: **Rainbow trout:** $LC_{50} = 6.12 \text{ ppm}$
Bluegill: $LC_{50} = 8.5 \text{ ppb}$ 5.37 ppm
Sheepshead minnow: $LC_{50} = 3.94 \text{ ppm}$
Mysid shrimp: $LC_{50} = 0.32 \text{ ppm}$

13. DISPOSAL CONSIDERATIONS

Wastes resulting from use of this product should be disposed of in accordance with all federal, state and local requirements. For additional regulatory information, see section 15 of this document.

14. TRANSPORT INFORMATION

DOT49CFR Description: Consumer Commodity ORM-D.

Freight Classification: INSECTICIDES N.O.I. OTHER THAN POISON, NMFC 102120 CLASS 60.

15. REGULATORY INFORMATION

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

RCRA: Regulated due to ignitability. (D001).

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.