

MATERIAL SAFETY DATA SHEET
Zoëcon Wasp-X™ Wasp & Hornet Spray

Manufacturer: Wellmark International

Address: 1501 East Woodfield Road, Suite 200 West Schaumburg, IL 60173

Emergency Phone: 800-347-8272

Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: Zoëcon Wasp-X™ Wasp & Hornet Spray

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.: 2724-786

RF Number: 2050

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) 750 ppm TWA (ACGIH)
Dimethyl Ether	115-10-6	2.86%	
Hydrocarbon Propellant Blend:		10.14%	
Propane	74-98-6		1000 ppm*
Isobutane	75-28-5		800 ppm*
n-Butane	106-97-8		800 ppm*

* established by
NIOSH

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENTS
KEEP OUT OF REACH OF CHILDREN
CAUTION
HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS
CAUSES MODERATE EYE IRRITATION. AVOID CONTACT WITH EYES OR CLOTHING
WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE
EATING, DRINKING, CHEWING GUM OR USING TOBACCO.

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

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 rinsing.
- Call a poison control center or doctor for treatment advice.

Note to Physician: Contains Petroleum Distillates – vomiting may cause aspiration pneumonia.

5. FIRE FIGHTING MEASURES

NFPA Rating: **Health: 2** **Fire: 2** **Reactivity: 0**
Flammability Class: Level 1 Aerosol
Flash Point: Not available.
Explosive Limits (% of Volume): Not available.
Extinguishing Media: Extinguishing media suitable for Class B fires.
Special Protective Equipment: Firefighters should wear full protective clothing including self-contained breathing apparatus.
Fire Fighting Procedures: 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: Contents under pressure.

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 and before eating, drinking, chewing gum, or using tobacco. Avoid contact with skin, eyes, or clothing. If clothing becomes contaminated, remove and launder before use.
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: Use adequate ventilation.

Personal Protective Equipment: None required; however, professional applicators (those with repeated and extended exposure) should wear appropriate protective equipment to prevent skin and eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Concentrate is a white liquid emulsion.

Boiling Point: 212°F

Melting Point: Not applicable

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

Vapor Density (Air = 1): Not known

Specific Gravity: Concentrate: 0.960

Bulk Density: Concentrate: 8.0 lbs/gallon

Solubility: In Water: Miscible

Evaporation Rate: (Water): 1.0

pH: 6.80

10. STABILITY AND REACTIVITY

Stability: Stable.

Reactivity: Not reactive.

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 >5,000 mg/kg

Acute dermal toxicity: LD₅₀ >5,000 mg/kg

Acute inhalation toxicity: LC₅₀ >2.03 mg/L

Skin irritation: slightly irritating

Eye irritation: moderately irritating

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

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.

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

MUTAGENICITY [Specific to Active Ingredient(s)]

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE [Active Ingredients Only]

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. Do not contaminate water when disposing of equipment wash waters.

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. NMFC I-155050 Sub 5 CL.65

15. REGULATORY INFORMATION

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

RCRA: Not regulated.

SARA 311/312 HAZARD CATEGORIES

Immediate Health: Yes

Delayed Health: Yes

Fire: No

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.