

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Trade name : Zenprox Wasp-X2 Spray
 Synonyms : 100538489, EPA Reg. No.: 2724-786-89459, RF2050 Spray

1.2. Recommended use and restrictions on use

Recommended use : Insecticide.
 Restrictions on use : Keep out of reach of children. Avoid contact with eyes, skin or clothing. Use only outdoors or in a well-ventilated area. Do NOT take internally.

1.3. Supplier

Central Garden & Pet Company
 1501 E. Woodfield Road, Suite 200W
 Schaumburg, IL 60173 - United States

www.zoecon.com

1.4. Emergency telephone number

Emergency number : 1-800-248-7763
 1-800-424-9300 - CHEMTREC
 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable aerosol Category 2	Flammable aerosol
Gases under pressure Compressed gas	Contains gas under pressure; may explode if heated
Skin corrosion/irritation Category 2	Causes skin irritation
Skin sensitization, Category 1	May cause an allergic skin reaction
Specific target organ toxicity (single exposure) Category 3	May cause drowsiness or dizziness
Aspiration hazard Category 1	May be fatal if swallowed and enters airways

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

Flammable aerosol
 Contains gas under pressure; may explode if heated
 May be fatal if swallowed and enters airways
 Causes skin irritation
 May cause an allergic skin reaction
 May cause drowsiness or dizziness

Precautionary statements (GHS US) :

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Do not spray on an open flame or other ignition source.
 Pressurized container: Do not pierce or burn, even after use.
 Avoid breathing dust/fume/gas/mist/vapors/spray.
 Wash hands, forearms and face thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If swallowed: Immediately call a poison center or doctor.
 If on skin: Wash with plenty of water.

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If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison center or doctor if you feel unwell.
Do NOT induce vomiting.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of contents/container to in accordance with local/regional/national/international regulations.

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : This product is extremely toxic to aquatic organisms, including fish and invertebrates. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Etofenprox	(CAS-No.) 80844-07-1	0.5
Tetramethrin	(CAS-No.) 7696-12-0	0.2
Piperonyl butoxide	(CAS-No.) 51-03-6	1
* Trade secret	(CAS-No.) N/A	95.788
* Trade secret	(CAS-No.) N/A	2.5
Non-hazardous and/or does not meet criteria for classification	(CAS-No.) N/A	Balance

Comments : * The specific chemical identity has been withheld as a trade secret

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.

First-aid measures after ingestion : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause drowsiness or dizziness.

Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic reaction in individuals with a sensitivity to Piperonyl butoxide.

Symptoms/effects after ingestion : Risk of lung edema.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing agent suitable for surrounding fire.

Unsuitable extinguishing media : Avoid heavy hose streams.

5.2. Specific hazards arising from the chemical

Explosion hazard : Contains gas under pressure; may explode if heated.

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

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5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Approach leaking or punctured pressurized containers cautiously. Isolate leaking container from all sources of ignition. Avoid breathing fumes. Ventilate enclosed areas.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Contents under pressure. Aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards. Do not attempt to take action without suitable protective equipment. At temperatures above 130°F, container may rupture.

Emergency procedures : As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Do not use or store near heat or open flame. Exposure to temperatures above 130°F may cause bursting. Do not smoke while using this product. Do not allow product to freeze. Contents under pressure, do not crush, puncture or incinerate. Avoid breathing fumes.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, dry place. Keep out of reach of children. Keep away from sources of ignition – No Smoking. Store in a well-ventilated place. Keep container tightly closed. Keep at a temperature not exceeding 120°F. Keep from freezing. NFPA Aerosol Classification: Level 3. Store locked up.

Incompatible materials : Heat, sparks, open flame.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

* Trade secret (N/A)		
ACGIH	ACGIH TWA (mg/m ³)	200 mg/m ³
* Trade secret (N/A)		
ACGIH	ACGIH TWA (ppm)	5000 ppm
ACGIH	ACGIH STEL (ppm)	30000 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls : Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

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Eye protection:

Safety glasses

Skin and body protection:

Wear long-sleeved shirt and long pants, and shoes plus socks.

Respiratory protection:

In case of insufficient ventilation, use NIOSH approved respiratory protection.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear pale gold stream spray
Color	: Clear pale gold
Odor	: Hydrocarbon
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: >95°C (203°F)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 0.8061 g/ml @ 25° C
Solubility	: Insoluble
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not applicable
Flame extention	: 45 in
Heat of combustion	: 44.9 KJ/g

9.2. Other information

Other properties : Dielectric breakdown: 36 kilovolts.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.

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10.4. Conditions to avoid

Heat, sparks, open flame. Excess heat.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Zenprox Wasp-X2 Spray	
Vaporizer	Aerosol

Etofenprox (80844-07-1)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.88 mg/l/4h

Tetramethrin (7696-12-0)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 1.57 mg/l/4h

Piperonyl butoxide (51-03-6)	
LD50 oral rat	4300 mg/kg
LD50 dermal rat	> 2000
LC50 inhalation rat (mg/l)	> 5 mg/l/4h

GHS-US Properties	Classification
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cells mutagen	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicant (single exposure)	May cause drowsiness or dizziness.
Specific target organ toxicant (repeated exposure)	Not classified
Aspiration hazard	May be fatal if swallowed and enters airways.

Potential health effects

Inhalation

Acute : May cause drowsiness and dizziness.

Skin

Acute : Causes skin irritation. May cause an allergic reaction in individuals with a sensitivity to Piperonyl butoxide.

Chronic : Prolonged and repeated exposure to Etofenprox can cause skin irritation.

Eye

Acute : May cause eye irritation.

Ingestion

Acute : Aspiration hazard - small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

Mutagenicity

: Etofenprox has been found negative for mutagenicity potential using the Ames test, chromosomal aberration and micronucleus test methods. Tetramethrin is not a mutagen. Piperonyl butoxide was not mutagenic in a battery of tests.

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- Carcinogenicity** : Etofenprox is not classified as carcinogen by NTP, IARC and OSHA. Tetramethrin is not listed as a carcinogen by IARC, NTP or OSHA. Piperonyl butoxide is not classified as carcinogen by NTP, IARC and OSHA.
- Reproductive Effects** : Etofenprox did not produce teratogenic or reproductive effects in laboratory experiments. Tetramethrin is not a teratogen. Piperonyl butoxide did not produce any birth defects or adverse effects on reproductive parameters in tests with rats and rabbits.

SECTION 12: Ecological information

12.1. Toxicity

Etofenprox (80844-07-1)	
LC50 Acute fish 1	0.0027 mg/l (Exposure time: 96h - Rainbow trout)
LC50 Acute fish 2	> 0.0165 (Exposure time: 96h - Sheepshead minnow)
LC50 Acute crustacea 1	0.0000188 mg/l (Exposure time: 96h - Mysid shrimp)
LC50 Acute crustacea 2	0.0008 mg/l (Exposure time: 48h - Daphnia magna)
NOEC Chronic crustacea 1	0.00017 mg/l (Daphnia magna)
Tetramethrin (7696-12-0)	
LC50 Acute fish 1	0.0037 mg/l (Exposure time: 96h - Rainbow trout)
LC50 Acute fish 2	0.016 mg/l (Exposure time: 96h - Blue gill)
LC50 Acute crustacea 1	0.11 mg/l (Exposure time: 48h - Daphnia magna)
Piperonyl butoxide (51-03-6)	
LC50 Acute fish 1	1.9 mg/l (Exposure time: na - Rainbow trout)
LC50 Acute fish 2	3.94 mg/l (Exposure time: na - Sheepshead minnow)
LC50 Acute crustacea 1	0.49 mg/l (Exposure time: na - Mysid shrimp)
LC50 Acute crustacea 2	0.51 mg/l (Exposure time: na - Gammarus fasciatus (amphipod))
NOEC Chronic fish 1	0.04 mg/l (Fathead minnow)
NOEC Chronic crustacea 1	0.03 mg/l (Daphnia magna)

12.2. Persistence and degradability

Etofenprox (80844-07-1)	
Persistence and degradability	Etofenprox is not readily biodegradable.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport information

	UN number	Proper Shipping Name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	UN1950	Aerosols	2.1	Not applicable	Not applicable
IMDG	UN1950	Aerosols, flammable (contains Etofenprox, tetramethrin)	2.1	Not applicable	Marine pollutant
IATA	UN1950	Aerosols, flammable (contains Etofenprox, tetramethrin)	2.1	Not applicable	Not applicable

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SECTION 15: Regulatory information

15.1. US Federal regulations

Tetramethrin (7696-12-0)	
Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1 %
Piperonyl butoxide (51-03-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1 %
FIFRA Labelling	
EPA Registration Number	2724-786-89459
This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.	
FIFRA Signal word	Caution
FIFRA Precautionary Statement	KEEP OUT OF REACH OF CHILDREN.
FIFRA Hazards to Humans and Domestic Animals	Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes, and chemical resistant (Barrier Laminate, Nitrile Rubber >14 mils, Neoprene Rubber >mils, Viton >mils) gloves.
FIFRA First Aid	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. Call a poison control center or doctor for treatment advice. IF ON 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. IF SWALLOWED: Immediately call a poison control center or doctor. 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. NOTE TO PHYSICIAN: Contains Petroleum Distillates – vomiting may cause aspiration pneumonia.
FIFRA Environmental Hazards	This product is extremely toxic to aquatic organisms, including fish and invertebrates. Do not apply directly to or near water. Drift and runoff may be hazardous to fish in water adjacent to treated areas. Do not contaminate water when disposing of equipment/product. See Directions for Use for additional precautions and requirements. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting foraging in the area.
FIFRA Physical Hazard	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.

15.2. US State regulations

No additional information available

SECTION 16: Other information

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Indication of changes:
Revised Sec. 9.

SDS US (GHS HazCom 2012) - CGP

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