



Safety Data Sheet

Section 1: Identification

Product identifier

Product Name • **Zoecon Wasp-X Wasp & Hornet Spray**

Synonyms • 100503603; EPA Reg. No.: 2724-786

Product Description • White foam aerosol spray.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use • Insecticide.

Restrictions on use •
Keep out of the reach of children. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and flame. Use in well ventilated area.

Details of the supplier of the safety data sheet

Manufacturer • Wellmark International
1501 E. Woodfield Road, Suite 200W
Schaumburg, IL 60173
United States

www.zoecon.com

Emergency telephone number

Manufacturer • 1-800-248-7763

Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC

Manufacturer (Transportation) • 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Aspiration 1
Flammable Aerosols 2
Eye Irritation 2A
Compressed Gas

Label elements

OSHA HCS 2012

DANGER



- Hazard statements** • May be fatal if swallowed and enters airways
 Flammable aerosol
 Contains gas under pressure; may explode if heated
 Causes serious eye irritation

Precautionary statements

- Prevention** • Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
 Do not spray on an open flame or other ignition source.
 Pressurized container: Do not pierce or burn, even after use.
 Wash thoroughly after handling.
 Wear eye protection/face protection.
- Response** • IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 Do NOT induce vomiting.
 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/attention.
- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
 Store locked up.
 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
 Protect from sunlight. Store in a well-ventilated place.

Other hazards

OSHA HCS 2012

- This product is extremely toxic to aquatic organisms, including fish and invertebrates. This product is highly toxic to bees. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance according to United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Mixtures

Composition		
Chemical Name	Identifiers	%
Etofenprox	CAS:80844-07-1	0.5%
Tetramethrin	CAS:7696-12-0	0.2%
Piperonyl butoxide	CAS:51-03-6	1%
Propane	CAS:74-98-6	5.13%
Butane	CAS:106-97-8	5.01%
Acetone	CAS:67-64-1	10%
Methyl ether	CAS:115-10-6	2.86%
Other ingredients	NDA	Balance

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin

- IF ON SKIN: Wash with plenty of soap and water. If irritation develops and persists, get medical attention.

Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.

Ingestion

- IF SWALLOWED: Aspiration hazard - do NOT induce vomiting. Call a physician or poison control center immediately. Call a poison control center or doctor immediately for treatment advice.

Most important symptoms and effects, both acute and delayed

- Aspiration hazard, causes serious eye irritation. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • SMALL FIRES: Dry chemical, CO₂, water spray or foam.
LARGE FIRE: Water spray, fog or foam.

Unsuitable Extinguishing Media

- Avoid heavy hose streams.

Firefighting Procedures

- Do not use direct stream of water. A direct stream of water may spread fire. Ventilate closed spaces before entering. Do not breathe gas/fumes/vapor/spray.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Containers may explode when heated. At temperatures above 130°F, container may rupture.

Hazardous Combustion Products

- Decomposes upon heating to produce toxic vapors/gases including carbon monoxide.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

-

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

Emergency Procedures

- Avoid unnecessary personnel and equipment traffic in the spill area. Do not allow runoff into water, storm drains or drainage ditches. Use normal clean up procedures.

Environmental precautions

- Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Keep away from fire, sparks and heated surfaces.
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.
Use appropriate Personal Protective Equipment (PPE).

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- 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.

Conditions for safe storage, including any incompatibilities

Storage

- Store in a cool, dry place. Keep out of reach of children. Keep away from sources of ignition – No Smoking. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep at a temperature not exceeding 122°F (50°C). Keep from freezing. Protect from sunlight. NFPA Aerosol Classification: Level 1.

Incompatible Materials or Ignition Sources

- Heat, sparks, open flame.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Butane (106-97-8)	STELs	1000 ppm STEL	Not established	Not established
	TWAs	Not established	800 ppm TWA; 1900 mg/m3 TWA	Not established
Propane (74-98-6)	TWAs	See Appendix F: Minimal Oxygen Content	1000 ppm TWA; 1800 mg/m3 TWA	1000 ppm TWA; 1800 mg/m3 TWA
Acetone (67-64-1)	TWAs	250 ppm TWA	250 ppm TWA; 590 mg/m3 TWA	1000 ppm TWA; 2400 mg/m3 TWA
	STELs	500 ppm STEL	Not established	Not established

Exposure Limits Supplemental

ACGIH

- Propane (74-98-6): **TLV Basis - Critical Effects:** (asphyxia (See Appendix F: Minimal Oxygen Content))
- Butane (106-97-8): **TLV Basis - Critical Effects:** (CNS impairment)
- Acetone (67-64-1): **TLV Basis - Critical Effects:** (CNS impairment; eye and upper respiratory tract irritation)

Exposure controls

Engineering Measures/Controls

- Use adequate ventilation to remove vapors (fumes, dust etc)

Personal Protective Equipment**Pictograms****Respiratory**

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

Eye/Face

- Wear safety goggles.

Hands

- Wear appropriate gloves.

Skin/Body

- It is recommended for handlers to wear appropriate clothing to prevent skin contact including long sleeves, long pants, socks and shoes.

Environmental Exposure Controls

- Avoid contaminating waterways and sewers.

Section 9 - Physical and Chemical Properties**Information on Physical and Chemical Properties**

Material Description			
Physical Form	Aerosol	Appearance/Description	White foam aerosol spray.
Color	White	Odor	No data available.
Aerosol Type	Foam	Odor Threshold	No data available
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	Heat of Decomposition	No data available
pH	6.0 (propellant-free concentrate)	Specific Gravity/Relative Density	= 0.96 Water=1 (propellant-free concentrate)
Water Solubility	Insoluble	Viscosity	No data available
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	10.2 %
VOC (Vol.)	No data available		
Flammability			
Flash Point	14°C (57.2°F)(TCC) (propellant-free concentrate)	UEL	No data available
LEL	No data available	Heat of Combustion (ΔHc)	9.02 kJ/g
Flame Extension	14 in	Flammability (solid, gas)	Flammable aerosol.
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity**Reactivity**

- Non-reactive under normal handling and storage conditions.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Heat, sparks, open flame. Excess heat.

Incompatible materials

- Heat, strong acids, strong bases and oxidizing agents.

Hazardous decomposition products

- Decomposes upon heating to produce toxic gases which may include: nitrogen oxides, carbon oxides, sulfur oxides.

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Etofenprox (0.5%)	80844-07-1	Acute Toxicity: Ingestion/Oral-Rat LD50 • >2000 mg/kg; Inhalation-Rat LC50 • >5.88 mg/L 4 Hour(s); Skin-Rabbit LD50 • >2000 mg/kg; Irritation: Eye-Rabbit • Essentially non-irritating; Skin-Rabbit • Essentially non-irritating
Tetramethrin (0.2%)	7696-12-0	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5000 mg/kg; Inhalation-Rat LC50 • >1.57 mg/L 4 Hour(s); Skin-Rat LD50 • >5000 mg/kg; Irritation: Eye-Rabbit • Essentially non-irritating; Skin-Rabbit • Essentially non-irritating
Piperonyl butoxide (1%)	51-03-6	Acute Toxicity: Ingestion/Oral-Rat, adult female LD50 • 4570 mg/kg; Inhalation-Rat LC50 • >5.9 mg/L; Skin-Rat LD50 • >2000 mg/kg

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2A
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Aspiration 1
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Classification criteria not met

Potential Health Effects

Inhalation

Acute (Immediate)

- May affect the central nervous system. Symptoms may include dizziness or drowsiness.

Chronic (Delayed)	No data available
Skin	
Acute (Immediate)	May cause irritation.
Chronic (Delayed)	Repeated exposure to etofenprox can cause skin irritation.
Eye	
Acute (Immediate)	Causes serious eye irritation.
Chronic (Delayed)	No data available
Ingestion	
Acute (Immediate)	Aspiration Hazard - may be fatal if swallowed and enters airways.
Chronic (Delayed)	No data available
Mutagenic Effects	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.
Carcinogenic Effects	Etofenprox is not classified as carcinogen by NTP, IARC and OSHA. Piperonyl butoxide is not classified as carcinogen by NTP, IARC and OSHA. Tetramethrin is not listed as a carcinogen by IARC, NTP or OSHA.
Reproductive Effects	Etofenprox did not produce teratogenic or reproductive effects in laboratory experiments. Piperonyl butoxide did not produce any birth defects or adverse effects on reproductive parameters in tests with rats and rabbits. Tetramethrin does not produce reproductive effects and is not a teratogen.

Section 12 - Ecological Information

Toxicity

Components		
Etofenprox (0.5%)	80844-07-1	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Sheepshead minnow</i> >0.0165 mg/L [Acute] 96 Hour(s) LC50 <i>Rainbow Trout</i> 0.0027 mg/L [Acute] Aquatic Toxicity-Crustacea: 48 Hour(s) LC50 Water Flea <i>Daphnia magna</i> 0.0008 mg/L [Acute] 96 Hour(s) LC50 <i>Mysid shrimp</i> 0.0000188 mg/L [Acute] NOEC Water Flea <i>Daphnia magna</i> 0.00017 mg/L [Chronic]
Tetramethrin (0.2%)	7696-12-0	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow trout</i> 0.0037 mg/L [Acute] 96 Hour(s) LC50 <i>Blue gill</i> 0.016 mg/L [Acute] Aquatic Toxicity-Crustacea: 48 Hour(s) LC50 <i>Daphnia magna</i> 0.11 mg/L [Acute]
Piperonyl butoxide (1%)	51-03-6	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow Trout</i> 1.9 mg/L [Acute] 96 Hour(s) LC50 <i>Sheepshead minnow</i> 3.94 mg/L [Acute] NOEC <i>Fathead minnow</i> 0.04 mg/L [Chronic] <i>Fathead minnow</i> 0.11 mg/L [Chronic LOEC] Aquatic Toxicity-Crustacea: <i>Daphnia magna</i> 0.047 mg/L [Chronic LOEC] 48 Hour(s) LC50 <i>Daphnia magna</i> 0.51 mg/L [Acute] 48 Hour(s) LC50 <i>Mysid shrimp</i> 0.49 mg/L [Acute] NOEC <i>Daphnia magna</i> 0.03 mg/L [Chronic]

Persistence and degradability

- No data available

Bioaccumulative potential

- No data available

Mobility in Soil

- No data available

Other adverse effects

Potential Environmental Effects

- Extremely toxic to fish and aquatic invertebrates, toxic to bees.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not allow entry into storm drains, drainage ditches, gutters or surface waters.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not puncture or incinerate.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	UN1950	Aerosols	2.1	Not Applicable	RQ Acetone = 5,000 lbs.
IMO/IMDG	UN1950	Aerosols (contains Tetramethrin)	2.1	Not Applicable	Marine Pollutant
IATA/ICAO	UN1950	Aerosols, flammable	2.1	Not Applicable	Not Applicable

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Other information

DOT • Environmental Hazards: RQ Acetone = 5,000 lbs.

IMO/IMDG • No data available

IATA/ICAO • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute, SARA Title III Section 313, Fire

FIFRA – Pesticide Labeling

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.

CAUTION

Precautionary Statements • KEEP OUT OF THE REACH OF CHILDREN.

Hazards 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, using tobacco, or using the toilet.

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 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.

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 the area.

Physical or Chemical Hazards

Flammable. Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate. Exposure to temperatures above 130° F may cause bursting.

Inventory		
Component	CAS	TSCA
Acetone	67-64-1	Yes
Butane	106-97-8	Yes
Etofenprox	80844-07-1	No
Methyl ether	115-10-6	Yes
Piperonyl butoxide	51-03-6	Yes
Propane	74-98-6	Yes
Tetramethrin	7696-12-0	No

United States

Environment

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Acetone	67-64-1	5000 lb final RQ; 2270 kg final RQ
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Methyl ether	115-10-6	Not Listed
• Etofenprox	80844-07-1	Not Listed
• Tetramethrin	7696-12-0	Not Listed
• Piperonyl butoxide	51-03-6	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Acetone	67-64-1	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Methyl ether	115-10-6	Not Listed
• Etofenprox	80844-07-1	Not Listed
• Tetramethrin	7696-12-0	1.0 % de minimis concentration
• Piperonyl butoxide	51-03-6	1.0 % de minimis concentration

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

• Acetone	67-64-1	Included in waste stream: F039
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Methyl ether	115-10-6	Not Listed
• Etofenprox	80844-07-1	Not Listed
• Tetramethrin	7696-12-0	Not Listed
• Piperonyl butoxide	51-03-6	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

• Acetone	67-64-1	
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Methyl ether	115-10-6	Not Listed
• Etofenprox	80844-07-1	Not Listed
• Tetramethrin	7696-12-0	Not Listed
• Piperonyl butoxide	51-03-6	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

• Acetone	67-64-1	waste number U002 (Ignitable waste)
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Methyl ether	115-10-6	Not Listed
• Etofenprox	80844-07-1	Not Listed
• Tetramethrin	7696-12-0	Not Listed
• Piperonyl butoxide	51-03-6	Not Listed

Section 16 - Other Information

Revision Date • 18/March/2016

Last Revision Date • 18/March/2016

Preparation Date • 18/March/2016

Disclaimer/Statement of Liability •

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.