



# Bonide Wasp & Hornet Killer (Aerosol)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name : Bonide Wasp & Hornet Killer (Aerosol)  
Product code : 4392

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Insecticide

#### 1.3. Details of the supplier of the safety data sheet

Bonide Products, LLC  
6301 Sutliff Road  
Oriskany, NY 13424

Telephone Number: (315) 736-8231

Comment: Bonide hours of operation are 8:00 a.m. to 4:30 p.m EST.

Website: [www.bonide.com](http://www.bonide.com)

Email address: [sales@bonide.com](mailto:sales@bonide.com)

#### 1.4. Emergency telephone numbers (24 hour)

Medical : SafetyCall - (833) 972-1101  
Spills : CHEMTREC - 1 (800) 424-9300 and/or 1 (703) 527-3887

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS-US)

Flammable aerosol 2	H223	
Chemicals under pressure	H283	
Aspiration toxicity 2	H305	
Skin corrosion/irritation 2		H315
Eye damage/irritation 2A		H319
Specific target organ toxicity - single - Narcotic effects 3		H336
Specific target organ toxicity - repeated exposure 2		H373

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H223 - Flammable aerosol  
H283 - Flammable chemical under pressure: May explode if heated  
H305 - May be harmful if swallowed and enters airways  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness  
H373 - Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 - Do not spray on an open flame or other ignition source.  
P233 - Keep container tightly closed.  
P251 - Do not pierce or burn, even after use.  
P260 - Do not breathe fume/gas/mist/vapors/spray.  
P264 - Wash hands thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P316 - IF SWALLOWED: Get emergency medical help immediately.  
P302 + P352 - IF ON SKIN: Wash with plenty of water.  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 - IF IN EYES - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

# Bonide Wasp & Hornet Killer (Aerosol)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P337 + P317 - If eye irritation persists: Get medical help.  
P319 - Get medical help if you feel unwell.  
P321 - Specific treatment (see on this label).  
P332 - If skin irritation occurs: Get medical help.  
P362 + P364 - Take off contaminated clothing and wash it before reuse.  
P331 - Do NOT induce vomiting.  
P381 - In case of leakage, eliminate all ignition sources.  
P376 - Stop leak if safe to do so.  
P370+P378 - In case of fire: Use Carbon Dioxide, Dry chemical, Foam, Water for extinction.  
P410 + P403 + P412 - Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50°C/122°F.  
P405 - Store locked up.  
P501 - Dispose of contents/container to in accordance with local/national regulations.

### 2.3. Other hazards

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

## SECTION 3: Composition/information on ingredients

### Mixture

Name	Product identifier (CAS No)	%
Permethrin	(CAS No) 52645-53-1	0.25
Tetramethrin	(CAS No) 7696-12-0	0.1
Piperonyl Butoxide	(CAS No) 51-03-6	0.5
Mineral Spirits	(CAS No) 8052-41-3	< 97*
Carbon dioxide	(CAS No) 124-38-9	< 3*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

Comments: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Assure fresh air breathing. Allow the person to rest. Give oxygen if possible. If person is not breathing, call 911 or an ambulance, then give artificial respiration, mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
First-aid measures after skin contact	: Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain emergency medical attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
Self-protection of the First Responder	: Remove all sources of ignition. Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	: Contact causes skin irritation. Causes serious eye irritation. Aspiration hazard if swallowed - can enter the lungs and cause damage. Aspiration into the lungs may cause chemical pneumonitis. Aspiration into the lungs may cause pulmonary edema. May affect behavior/central nervous system. May cause central nervous system effects. May cause drowsiness or dizziness. May cause nausea, headache, vomiting. Fatigue. May affect behavior/central nervous system (tremor, convulsions). Unconsciousness. Fainting. Somnolence. Ataxia. Lightheadedness. May affect the blood (normocytic anemia). It may affect the kidneys. It may affect the peripheral nervous system. Peripheral neuropathy. Repeated or prolonged exposure may cause dryness or cracking of the skin..
-------------------	--

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

# Bonide Wasp & Hornet Killer (Aerosol)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Flammable liquid and vapor. Exposures to temperatures above 130 degrees F may cause bursting.
- Explosion hazard : May form flammable/explosive vapor-air mixture.

### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. Use special care to avoid static electric charges.

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

### 6.2. Environmental precautions

- Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Use clean non-sparking tools to collect absorbed material. Store away from other materials in a suitable chemical waste disposal container. Clean contaminated surface thoroughly. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.
- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Take precautionary measures against static discharge. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.
- Storage conditions : Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature in the original container. Keep away from heat and sources of ignition. Store in a segregated and approved area. Store away from incompatible materials.
- Incompatible materials : Oxidizing agents. Acids. Sources of ignition. Heat sources.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Stoddard Solvent	8052-41-3	500 ppm TWA 2900 mg/m <sup>3</sup> TWA	= 350 mg/m <sup>3</sup> TWA	= 100 ppm TWA	None

- Engineering measures to reduce exposure : Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

### 8.2. Exposure controls

- Personal protective equipment : Avoid all unnecessary exposure.
- Hand protection : Wear protective gloves.
- Eye protection : Chemical goggles or safety glasses.
- Respiratory protection : Wear approved mask.
- Other information : When using, do not eat, drink or smoke.

# Bonide Wasp & Hornet Killer (Aerosol)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: Colorless.
Odor	: Odorless to faint deodorized kerosene odor.
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 192 °F (88.89 °C)
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. May release flammable gases.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

##### Mineral Spirits (8052-41-3)

LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	> 3000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 5.5 mg/l/4h (Rat)

##### Permethrin (52645-53-1)

LD50 oral rat	> 383 mg/kg (Rat)
LD50 dermal rat	4000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)

# Bonide Wasp & Hornet Killer (Aerosol)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Skin corrosion/irritation	: No information available
Serious eye damage/irritation	: No information available
Respiratory or skin sensitization	: No information available
Germ cell mutagenicity	: No information available
Carcinogenicity	: Not classifiable as to its carcinogenicity to humans.

Permethrin (52645-53-1)	
IARC group	3 - Not Classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. Central nervous system. Peripheral Nervous System (PNS). Target Organs: Central nervous system. Peripheral nervous system. Blood.
Aspiration hazard	: No information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Permethrin (52645-53-1)	
LC50 fish 1	0.0025 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	0.00043 mg/l (48 h; Daphnia magna; Enzyme effect)
LC50 fish 2	0.016 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 2	0.290 mg/l (24 h; Lymnaea sp.)

### 12.2. Persistence and degradability

No information available

### 12.3. Bioaccumulative potential

Bonide Wasp & Hornet Killer (Aerosol)	
Bioaccumulative potential	Not established.

  

Mineral Spirits (8052-41-3)	
Log Pow	-3.16 - 7.06
Bioaccumulative potential	Bioaccumable.

  

Permethrin (52645-53-1)	
BCF fish 1	560 Salmo gairdneri (Oncorhynchus mykiss)
BCF fish 2	480 (Cyprinodon variegatus)
BCF other aquatic organisms 1	0.1 mg/l (>24 h; Algae)
BCF other aquatic organisms 2	1900 (Ostreidae)
Log Pow	3.48 - 6.5
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

### 12.4. Mobility in soil

Mineral Spirits (8052-41-3)	
Surface tension	0.02 N/m (20 °C)

  

Permethrin (52645-53-1)	
Ecology - soil	Toxic to bees.

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Avoid release to the environment.

# Bonide Wasp & Hornet Killer (Aerosol)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 14: Transport information

DOT (Department of Transportation)

UN/ID Number: UN1950

Proper Shipping Name: Aerosols, non-flammable

Hazard Class: 2.2

Air (IATA/ ICAO)

UN/ID Number: UN1950

Proper Shipping Name: Aerosols, non-flammable

Hazard Class: 2.2

Vessel (IMO/ IMDG) Not available

### SECTION 15: Regulatory information

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Remove contaminated clothing and wash clothing before reuse.

#### 15.1. US Federal regulations

No additional information available

#### 15.2. US State regulations

No additional information available

### SECTION 16: Other information

Other information : None.

SDS US (GHS HazCom 2012) - Pesticides

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*