



# Bonide Mosquito Beater Yard Fog

## 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 Mosquito Beater Yard Fog  
Product code : 4429

#### 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)

Aerosol 3 H229  
Flammable liquid 4 H227  
Specific Target Organ Toxicity, repeated exposure 1 H372

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H229 - Pressurized container: May burst if heated  
H227 - Combustible liquid  
H372 - 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.  
P251 - Do not pierce or burn, even after use.  
P260 - Do not breathe vapors.  
P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P319 - Get medical help if you feel unwell.  
P370+P378 - In case of fire: Use foam or dry powder for extinction.  
P403 - Store in a well-ventilated place.  
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
P501 - Dispose of contents/container to in accordance with local/national regulations.

### SECTION 3: Composition/information on ingredients

#### Mixture

| Name               | Product identifier (CAS No) | %    |
|--------------------|-----------------------------|------|
| Piperonyl Butoxide | 51-03-6                     | 0.75 |
| Permethrin         | 52645-53-1                  | 0.15 |
| Tetramethrin       | 7696-12-0                   | 0.15 |

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| Name                                      | Product identifier (CAS No) | %       |
|-------------------------------------------|-----------------------------|---------|
| Solvent naphtha(petroleum), medium aliph. | 64742-88-7                  | 5 - 10* |

\*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

### 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.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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

- Symptoms/injuries : Suspected of causing damage to organs.

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

No additional information available

### 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.

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

No additional information available

#### 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

##### 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.

#### 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. Collect spillage. Store away from other materials.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- 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. Do not breathe vapours.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

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

- Storage conditions : Store in original container. Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 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. |

### 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 (88.88 °C)                           |
| Self ignition temperature                   | : No data available                           |
| Decomposition temperature                   | : No data available                           |
| Flammability (solid, gas)                   | : No data available                           |
| Vapor pressure                              | : No data available                           |
| Relative vapor density at 20 °C             | : No data available                           |
| Relative density                            | : No data available                           |
| Density                                     | : 8.11 lbs./gal.                              |
| Solubility                                  | : No data available                           |
| Viscosity, kinematic                        | : 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.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| Solvent naphtha(petroleum), medium aliph. (64742-88-7) |                                                                                          |
|--------------------------------------------------------|------------------------------------------------------------------------------------------|
| LD50 oral rat                                          | > 5000 mg/kg body weight (Rat; Equivalent or similar to OECD 420; Experimental value)    |
| LD50 dermal rabbit                                     | > 2000 mg/kg body weight (Rabbit; Experimental value; Equivalent or similar to OECD 402) |

| 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) |

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

| 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.  
Causes damage to organs through prolonged or repeated exposure

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

| Solvent naphtha(petroleum), medium aliph. (64742-88-7) |                                                           |
|--------------------------------------------------------|-----------------------------------------------------------|
| Threshold limit algae 1                                | 1 - 3,72 h; Pseudokirchneriella subcapitata; Cell numbers |

| 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

| Bonide Mosquito Beater Yard Fog |                  |
|---------------------------------|------------------|
| Persistence and degradability   | Not established. |

| Solvent naphtha(petroleum), medium aliph. (64742-88-7) |                                                        |
|--------------------------------------------------------|--------------------------------------------------------|
| Persistence and degradability                          | Readily biodegradable in water. Adsorbs into the soil. |

#### 12.3. Bioaccumulative potential

| Bonide Mosquito Beater Yard Fog |                  |
|---------------------------------|------------------|
| Bioaccumulative potential       | Not established. |

| Solvent naphtha(petroleum), medium aliph. (64742-88-7) |                                    |
|--------------------------------------------------------|------------------------------------|
| Bioaccumulative potential                              | No bioaccumulation data available. |

| 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)                          |

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| Permethrin (52645-53-1)   |                                                   |
|---------------------------|---------------------------------------------------|
| Log Pow                   | 3.48 - 6.5                                        |
| Bioaccumulative potential | High potential for bioaccumulation (Log Kow > 5). |

### 12.4. Mobility in soil

| 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.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

UN1950, 2.2 Aerosols, non-flammable, (each not exceeding 1 L capacity)  
Limited Quantity

### Additional information

Other information : No airplane transport

## 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:** Harmful if absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes and clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

## 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.*