



# Bonide Pyrethrin Garden Insect Spray

## 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 Pyrethrin Garden Insect Spray  
Product code : 4371

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

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

Bonide Products, Inc.  
6301 Sutliff Road  
Oriskany, NY 13424  
T (315) 736-8231  
[www.bonide.com](http://www.bonide.com)

#### 1.4. Emergency telephone number

Emergency number : 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)

Flam. Liq. 4 H227

#### 2.2. Label elements

##### GHS-US labeling

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : H227 - Combustible liquid  
Precautionary statements (GHS-US) : P210 - Keep away from ignition sources. - No smoking  
P280 - Wear gloves  
P370+P378 - In case of fire: Use Foam, carbon dioxide, waterfog and dry chemical for extinction  
P403+P235 - Store in a well-ventilated place. Keep cool  
P501 - Dispose of contents/container to in accordance with local/national regulations.

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

### SECTION 3: Composition/information on ingredients

#### Mixture

| Name                   | Product identifier  | %    | Classification (GHS-US)  |
|------------------------|---------------------|------|--|
| Piperonyl Butoxide     | (CAS No) 51-03-6    | 10   | Not classified   |
| pyrethrins             | (CAS No) 8003-34-7  | 1    | Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Inhalation:vapour),<br>H331 |
| naphtha,heavy aromatic | (CAS No) 64742-94-5 | 0.78 | Skin Irrit. 2, H315<br>Asp. Tox. 1, H304                               |

### 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 : Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, if possible.  
First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.  
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 : Immediately call a POISON CENTER or doctor/physician. Do not give any liquid to the person.

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

No additional information available

### 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.

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

Fire hazard : combustible

### 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.  
Other information : Material may float and reignite.

## 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.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : keep away from ignition sources.  
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. Use only non-sparking tools. 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. Comply with applicable regulations.  
Storage conditions : Store in original container. Keep in fireproof place. Keep container tightly closed.  
Incompatible products : Strong bases. strong acids.  
Incompatible materials : Sources of ignition. Heat sources.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### pyrethrins (8003-34-7)

|           |                                |                     |
|-----------|--------------------------------|---------------------|
| USA ACGIH | ACGIH TWA (mg/m <sup>3</sup> ) | 5 mg/m <sup>3</sup> |
|-----------|--------------------------------|---------------------|

### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

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|                        |   |
|------------------------|---|
| 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                                  | : Thin, light yellow, clear liquid. |
| Color                                       | : Colourless to light yellow.       |
| Odor  | : mild.                             |
| 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                                 | : 198 °F                            |
| 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                            | : 0.85 - 0.875                      |
| Solubility                                  | : Soluble in water. Soluble in oil. |
| 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                 |

#### 9.2. Other information

No additional information 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.

#### 10.5. Incompatible materials

Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

none known.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

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Acute toxicity : Not classified

| <b>pyrethrins (8003-34-7)</b> |                   |
|-------------------------------|-------------------|
| LD50 oral rat                 | 200 mg/kg (Rat)   |
| LC50 inhalation rat (mg/l)    | 3.4 mg/l/4h (Rat) |

| <b>naphtha,heavy aromatic (64742-94-5)</b> |                       |
|--|-----------------------|
| LD50 oral rat                              | > 5000 mg/kg (Rat)    |
| LD50 dermal rabbit                         | > 2000 mg/kg (Rabbit) |
| LC50 inhalation rat (mg/l)                 | > 5 mg/l/4h (Rat)     |

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

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

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

| <b>pyrethrins (8003-34-7)</b>             |  |
|---|--|
| LC50 fish 1                               | 0.049 mg/l (96 h; Lepomis macrochirus) |
| LC50 other aquatic organisms 1            | 0.011 mg/l (96 h; Gammarus sp.)        |
| LC50 fish 2                               | 0.009 mg/l (96 h; Ictalurus punctatus) |
| Threshold limit other aquatic organisms 1 | 0.011 mg/l (96 h; Gammarus sp.)        |

| <b>naphtha,heavy aromatic (64742-94-5)</b> |   |
|--|---|
| LC50 fish 1                                | 2.1 - 4.2 mg/l (96 h; Lepomis macrochirus; Fresh water) |
| EC50 Daphnia 1                             | 0.95 mg/l (48 h; Daphnia magna)                         |
| LC50 fish 2                                | 2.34 mg/l (96 h; Oncorhynchus mykiss)                   |
| Threshold limit algae 1                    | 1 mg/l (72 h; Skeletonema costatum; Growth)             |

### 12.2. Persistence and degradability

| <b>Bonide Pyrethrin Garden Insect Spray</b> |                  |
|---|------------------|
| Persistence and degradability               | Not established. |

| <b>Piperonyl Butoxide (51-03-6)</b> |                  |
|-------------------------------------|------------------|
| Persistence and degradability       | Not established. |

| <b>pyrethrins (8003-34-7)</b> |                                 |
|-------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

| <b>naphtha,heavy aromatic (64742-94-5)</b> |                                     |
|--|-------------------------------------|
| Persistence and degradability              | Not readily biodegradable in water. |

### 12.3. Bioaccumulative potential

| <b>Bonide Pyrethrin Garden Insect Spray</b> |                  |
|---|------------------|
| Bioaccumulative potential                   | Not established. |

| <b>Piperonyl Butoxide (51-03-6)</b> |                  |
|-------------------------------------|------------------|
| Bioaccumulative potential           | Not established. |

| <b>pyrethrins (8003-34-7)</b> |                        |
|-------------------------------|------------------------|
| Log Pow                       | 6.15 (Estimated value) |

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|  |               |
|--|---------------|
| <b>naphtha,heavy aromatic (64742-94-5)</b> |               |
| Log Pow                                    | 2.9 - 6.1     |
| Bioaccumulative potential                  | Bioaccumable. |

### 12.4. Mobility in soil

|                               |                                     |
|-------------------------------|-------------------------------------|
| <b>pyrethrins (8003-34-7)</b> |                                     |
| Ecology - soil                | Not toxic to plants. 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.  
Additional information : Handle empty containers with care because residual vapors are flammable.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT  
No dangerous good in sense of transport regulations

### Additional information

Other information : No supplementary information available.

### ADR

Transport document description :

### Transport by sea

No additional information available

### Air transport

No additional information 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:

Harmful if absorbed through the skin or inhaled.  
Causes moderate eye injury.

### 15.1. US Federal regulations

|   |      |
|---|------|
| <b>Bonide Pyrethrin Garden Insect Spray</b>                                   |      |
| Not listed on the United States TSCA (Toxic Substances Control Act) inventory |      |
| <b>pyrethrins (8003-34-7)</b>   |      |
| Not listed on the United States TSCA (Toxic Substances Control Act) inventory |      |
| RQ (Reportable quantity, section 304 of EPA's List of Lists) :                | 1 lb |
| <b>naphtha,heavy aromatic (64742-94-5)</b>                                    |      |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory     |      |

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

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**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Not classified

### 15.2.2. National regulations

No additional information available

### 15.3. US State regulations

#### pyrethrins (8003-34-7)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

|                                  |   |
|----------------------------------|---|
| Acute Tox. 3 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 3 |
| Acute Tox. 3 (Oral)              | Acute toxicity (oral) Category 3              |
| Asp. Tox. 1                      | Aspiration hazard Category 1                  |
| Flam. Liq. 4                     | Flammable liquids Category 4                  |
| Skin Irrit. 2                    | Skin corrosion/irritation Category 2          |
| H227                             | Combustible liquid                            |
| H301                             | Toxic if swallowed                            |
| H304                             | May be fatal if swallowed and enters airways  |
| H315                             | Causes skin irritation                        |
| H331                             | Toxic if inhaled                              |

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.*