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

1.1. Product identifier
Product name: Bedbug Killer
Product code: 4358

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, Inc.
6301 Sutliff Road
Oriskany, NY 13424
T (315) 736-8231
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)
Not classified

2.2. Label elements
GHS-US labeling
No labeling applicable

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS-US)
No data available

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Permethrin (CAS No) 52645-53-1</td>
<td>0.5</td>
<td>Not classified</td>
<td></td>
</tr>
</tbody>
</table>

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 emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media
Unsuitable extinguishing media: Do not use a heavy water stream.
### Bedbug Killer

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

No additional information available

#### 5.3. Advice for firefighters

<table>
<thead>
<tr>
<th>Firefighting instructions</th>
<th>Use water spray or fog for cooling exposed containers.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection during firefighting</td>
<td>Do not enter fire area without proper protective equipment, including respiratory protection.</td>
</tr>
</tbody>
</table>

---

#### 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

| Precautions for safe handling | Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Keep container tightly closed. |

##### 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. |

#### 7.3. Specific end use(s)

No additional information available

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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. |

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#### SECTION 9: Physical and chemical properties

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

| Physical state | Liquid |
| Color | Opaque to white. |
| Odor | Insecticide type odor. |
| Odor threshold | No data available |
| pH | 5.5 - 7 |
| Relative evaporation rate (butyl acetate=1) | No data available |
| Melting point | No data available |
| Freezing point | No data available |
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### Boiling point
No data available

### Flash point
No data available

### 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
0.999

### 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

### Boiling point
No data available

### Flash point
No data available

### 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
0.999

### Solubility
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### 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.

10.5. Incompatible materials
Strong acids. Strong bases.

10.6. Hazardous decomposition products
Carbon monoxide. Carbon dioxide.

### SECTION 11: Toxicological information

11.1. Information on toxicological effects

#### Acute toxicity
Not classified

<table>
<thead>
<tr>
<th>Permethrin (52645-53-1)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 383 mg/kg (Rat)</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>4000 mg/kg (Rat)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
</tr>
</tbody>
</table>

#### Skin corrosion/irritation
Not classified

#### pH: 5.5 - 7

#### Serious eye damage/irritation
Not classified

#### pH: 5.5 - 7

#### Respiratory or skin sensitization
Not classified

#### Germ cell mutagenicity
Not classified

#### Carcinogenicity
Not classified

<table>
<thead>
<tr>
<th>Permethrin (52645-53-1)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC group</td>
<td>3 - Not Classifiable</td>
</tr>
</tbody>
</table>

#### Reproductive toxicity
Not classified
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### 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

**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

**Bedbug Killer**
- Persistence and degradability: Not established.

#### 12.3. Bioaccumulative potential

**Bedbug Killer**
- Bioaccumulative potential: Not established.

**Permethrin (52645-53-1)**
- BCF fish 1: 560 *Salmo gairdneri (Oncorhynchus mykiss)*
- BCF fish 2: 480 (Cypriodon 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

**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

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

#### Additional information

**Other information**: No supplementary 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:**
- Wash thoroughly after handling and before smoking or eating.
15.1. US Federal regulations
No additional information available

15.2. International regulations
No additional information available

15.3. 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.