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

1.1. Product identifier
Product name : Revenge Granular Ant Bait
Product code : 6440524

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

Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orthoboric acid</td>
<td>(CAS No) 10043-35-3</td>
<td>0.5</td>
<td>Not classified</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.
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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.
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: On land, sweep or shovel into suitable containers. Minimize generation of dust. 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.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store in original container. Keep container closed when not in use. Protect from moisture.
Incompatible products: Strong bases. Strong acids.
Incompatible materials: Sources of ignition.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Orthoboric acid (10043-35-3)</th>
<th>USA ACGIH ACGIH TWA (mg/m³)</th>
<th>USA ACGIH ACGIH STEL (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 mg/m³</td>
<td>6 mg/m³</td>
</tr>
</tbody>
</table>

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: Solid
Appearance: Brown Granular Particles.
Color: Brown.
Odor: Minimal, if any.
Odor threshold: No data available

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pH: No data available
Relative evaporation rate (butyl acetate=1): No data available
Melting point: 169 °C
Freezing point: No data available
Boiling point: Decomposes
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: No data available
Density: 1.43
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

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. If moisture is present, boric acid can be corrosive to iron.

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid
Extremely high or low temperatures.

10.5. Incompatible materials
Potassium, acetic anhydride, alkalis, carbonates, and hydroxides.

10.6. Hazardous decomposition products
Loses chemically combined water upon heating, forming metabolic acid (HB02) at 212-221F, then pyroboric acid (H2B407) at 385-320F, and when boric anhydride at higher temperatures.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: Not classified

Orthoboric acid (10043-35-3)

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>2660 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; &gt;2600 mg/kg bodyweight; Rat; Experimental value)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 2000 mg/kg Rabbit; Experimental value; FIFRA (40 CFR)</td>
</tr>
</tbody>
</table>

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
### Revenge Granular Ant Bait

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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

**Orthoboric acid (10043-35-3)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>100 ppm (96 h; Salmo gairdneri (Oncorhynchus mykiss); Soft water)</td>
<td></td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>658 - 875 mg/l (48 h; Daphnia magna)</td>
<td></td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>79 ppm (96 h; Salmo gairdneri (Oncorhynchus mykiss); Hard water)</td>
<td></td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>19.7 mg/l (336 h; Daphnia magna)</td>
<td></td>
</tr>
<tr>
<td>TLM fish 1</td>
<td>1800 ppm (24 h; Gambusia affinis)</td>
<td></td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>5 mg/l (672 h; Elodea sp.)</td>
<td></td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>0.4 - 0.8,336 h; Chlorella sp.; Growth</td>
<td></td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

**Revenge Granular Ant Bait**

Persistence and degradability: Not established.

**Orthoboric acid (10043-35-3)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biodegradability</td>
<td>Not applicable. Biodegradability in soil: not applicable. No (test)data on mobility of the substance available.</td>
</tr>
<tr>
<td>Biochemical oxygen demand (BOD)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>ThOD</td>
<td>Not applicable</td>
</tr>
<tr>
<td>BOD (% of ThOD)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

#### 12.3. Bioaccumulative potential

**Revenge Granular Ant Bait**

Bioaccumulative potential: Not established.

**Orthoboric acid (10043-35-3)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>0 (Salmo gairdneri (Oncorhynchus mykiss); Chronic)</td>
</tr>
<tr>
<td>BCF fish 2</td>
<td>&lt; 0.1 (60 days; Oncorhynchus tshawytscha; Fresh weight)</td>
</tr>
<tr>
<td>Log Pow</td>
<td>-1.09 (Experimental value; EU Method A.8: Partition Coefficient; 22 °C)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
</tbody>
</table>

#### 12.4. Mobility in soil

**Orthoboric acid (10043-35-3)**

Ecology - soil: May be harmful to plant growth, blooming and fruit formation.

#### 12.5. Other adverse effects

Other information: Avoid release to the environment.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Revenge Granular Ant Bait**

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials: Avoid release to the environment.

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### SECTION 14: Transport information

**Revenge Granular Ant Bait**

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:** Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

<table>
<thead>
<tr>
<th>15.1. US Federal regulations</th>
<th>No additional information available</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.2. International regulations</td>
<td>No additional information available</td>
</tr>
<tr>
<td>15.3. US State regulations</td>
<td>No additional information available</td>
</tr>
</tbody>
</table>

### SECTION 16: Other information

<table>
<thead>
<tr>
<th>Other information</th>
<th>None.</th>
</tr>
</thead>
</table>

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.*