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

1.1. Product identifier

Product name: Revenge Dust-On Fly, Lice & Tick Control
Product code: 4430

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

Other hazards: No additional information available

2.4. Unknown acute toxicity (GHS-US)

Unknown acute toxicity: 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>Permethrin</td>
<td>(CAS No) 52645-53-1</td>
<td>0.25</td>
<td>Skin Irrit. 2, H315</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 for 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.
Revenge Dust-On Fly, Lice & Tick Control
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
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. Notify authorities if liquid enters sewers or 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. Provide good ventilation in process area to prevent formation of vapor.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep only in the original container in a cool, well ventilated place away from children. 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

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: Solid
Appearance: White solid.
Color: Colorless.
Odor: Mild.
Odor threshold: No data available
pH: 5.5 - 7
**Revenge Dust-On Fly, Lice & Tick Control**

**Safety Data Sheet**

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**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

**Permethyl (52645-53-1)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</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

**Permethyl (52645-53-1)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC group</td>
<td>3 - Not Classifiable</td>
</tr>
</tbody>
</table>

**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

**Permethyl (52645-53-1)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>0.0025 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>0.00043 mg/l (48 h; Daphnia magna; Enzyme effect)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>0.016 mg/l (96 h; Pimephales promelas)</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>0.290 mg/l (24 h; Lymnaea sp.)</td>
</tr>
</tbody>
</table>

### 12.2. Persistence and degradability

**Revenge Dust-On Fly, Lice & Tick Control**

**Persistence and degradability**

- Not established.
12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Revenge Dust-On Fly, Lice &amp; Tick Control</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permethrin (52645-53-1)</td>
<td>Not established.</td>
</tr>
<tr>
<td>BCF fish 1</td>
<td>560 Salmo gairdneri (Oncorhynchus mykiss)</td>
</tr>
<tr>
<td>BCF fish 2</td>
<td>480 (Cyprinodon variegatus)</td>
</tr>
<tr>
<td>BCF other aquatic organisms 1</td>
<td>0.1 mg/l (&gt;24 h; Algae)</td>
</tr>
<tr>
<td>BCF other aquatic organisms 2</td>
<td>1900 (Ostreidae)</td>
</tr>
<tr>
<td>Log Pow</td>
<td>3.48 - 6.5</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>High potential for bioaccumulation (Log Kow &gt; 5).</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Permethrin (52645-53-1)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology - soil</td>
<td>Toxic to bees.</td>
</tr>
</tbody>
</table>

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: KEEP OUT OF REACH OF CHILDREN

Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately. Do not allow pets which are not listed for use on this label to contact treated areas.

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.

Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>Skin Irrit. 2</th>
<th>Skin corrosion/irritation Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
</tbody>
</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.