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

1.1. Product identifier
Product name: Bonide Mosquito Beater Ready to Spray
Product code: 564-25B

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Repellent

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>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cedar Oil</td>
<td>(CAS No) 68990-83-0</td>
<td>5</td>
<td>Not classified</td>
</tr>
<tr>
<td>Citronella Oil</td>
<td>(CAS No) 89998-15-2</td>
<td>2</td>
<td>Not classified</td>
</tr>
<tr>
<td>Sodium Lauryl Sulfate</td>
<td>(CAS No) 151-21-3</td>
<td>1</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>Geranium Oil</td>
<td>(CAS No) 8000-46-2</td>
<td>0.2</td>
<td>Not classified</td>
</tr>
<tr>
<td>Lemongrass Oil</td>
<td></td>
<td>0.2</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
Bonide Mosquito Beater Ready to Spray
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 5: Firefighting measures

5.1. Extinguishing media
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: No specific fire-fighting instructions required. 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: 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.

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

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: Fragrant opaque/white liquid.
Color: Opaque-white.
Odor: Fragrant, lemony scent.
Bonide Mosquito Beater Ready to Spray
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Odor threshold : No data available
pH : 6.5 - 7
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 : Aquous base product. Will not flash or burn. Will "steam" from water content.
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

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>Sodium Lauryl Sulfate (151-21-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Not classified
pH: 6.5 - 7

Serious eye damage/irritation : Not classified
pH: 6.5 - 7

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Bonide Mosquito Beater Ready to Spray
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Topic</th>
<th>Classification/Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Potential Adverse human health effects and symptoms</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
</tbody>
</table>

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Sodium Lauryl Sulfate (151-21-3)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1 (96 h; Salmo gairdneri)</td>
<td>4.62 mg/l (Nominal concentration)</td>
</tr>
<tr>
<td>EC50 Daphnia 1 (48 h; Daphnia magna)</td>
<td>6.3 - 7.8 mg/l (Static system)</td>
</tr>
<tr>
<td>EC50 other aquatic organisms 1</td>
<td>18 mg/l (168 h; Lemna sp.)</td>
</tr>
<tr>
<td>LC50 fish 2 (96 h; Brachydanio rerio)</td>
<td>7.97 mg/l (Lethal)</td>
</tr>
<tr>
<td>EC50 Daphnia 2 (48 h; Daphnia pulex)</td>
<td>12.6 mg/l</td>
</tr>
<tr>
<td>Threshold limit other aquatic organisms 1</td>
<td>40 mg/l (72 h; Protoza)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>14.8 mg/l (72 h; Chlorophyta)</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>0.02 mg/l (192 h; Scenedesmus quadricauda; Growth rate)</td>
</tr>
</tbody>
</table>

**12.2. Persistence and degradability**

**Bonide Mosquito Beater Ready to Spray**

Persistence and degradability: Not established.

**Sodium Lauryl Sulfate (151-21-3)**

Persistence and degradability: Readily biodegradable in water. Highly mobile in soil.

**12.3. Bioaccumulative potential**

**Bonide Mosquito Beater Ready to Spray**

Bioaccumulative potential: Not established.

**Sodium Lauryl Sulfate (151-21-3)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1 (72 h; Cyprinus carpio)</td>
<td>3.9 - 5.3</td>
</tr>
<tr>
<td>BCF fish 2 (Pisces; Chronic)</td>
<td>7.15</td>
</tr>
<tr>
<td>Log Pow</td>
<td>&lt;= -2.03 (Calculated; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 20 °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**

**Sodium Lauryl Sulfate (151-21-3)**

Surface tension: 0.0252 N/m (23 °C; 1 g/l)

**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 regulated 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: Product can cause moderate eye irritation. For certain individuals, skin irritation may occur. In case of eye contact, flush with plenty of water. In case of skin irritation, wash area thoroughly with soap and water. If swallowed, call a physician or poison control center. Seek medical attention if irritation persists.

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>Acute Tox. 4 (Oral)</th>
<th>Acute toxicity (oral) Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed</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.