Bonide BurnOut Fast Acting Weed and Grass Killer Ready to Use
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: BurnOut Fast Acting Weed and Grass Killer Ready to Use
Product code: 7479, 7495-25B

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

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) 262-8200

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)
Skin Irrit. 2 H315
Eye Dam. 1 H318

2.2. Label elements

GHS-US labeling
Hazard pictograms (GHS-US):

- GHS05
- GHS07

Signal word (GHS-US): Warning
Hazard statements (GHS-US):
- H315 - Causes skin irritation
- H318 - Causes serious eye damage

Precautionary statements (GHS-US):
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water
- P305+P351+P338 - IF in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 - Immediately call a POISON CENTER or doctor/physician
- P332+P313 - IF skin irritation occurs: Get medical advice/attention
- P362 - Take off contaminated clothing and wash before reuse

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>Citric acid</td>
<td>(CAS No) 77-92-9</td>
<td>8</td>
<td>Skin Corr. 1A, H314</td>
</tr>
<tr>
<td>Clove Oil</td>
<td>(CAS No) 8000-34-8</td>
<td>2.6</td>
<td>Acute Tox. 4 (Oral), H302, Acute Tox. 4 (Dermal), H312</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1. Description of first aid measures

<table>
<thead>
<tr>
<th>First-aid measures general</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First-aid measures after inhalation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assure fresh air breathing. Allow the person to rest.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First-aid measures after skin contact</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: call doctor/physician. Get medical advice/attention. Specific treatment (see section 4 on this label).</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First-aid measures after eye contact</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First-aid measures after ingestion</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Symptoms/injuries after skin contact</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Causes skin irritation.</td>
<td></td>
</tr>
</tbody>
</table>

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>Description</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Unsuitable extinguishing media</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not use a heavy water stream.</td>
<td></td>
</tr>
</tbody>
</table>

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>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Protection during firefighting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not enter fire area without proper protective equipment, including respiratory protection.</td>
<td></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

<table>
<thead>
<tr>
<th>Emergency procedures</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evacuate unnecessary personnel.</td>
<td></td>
</tr>
</tbody>
</table>

6.1.2. For emergency responders

<table>
<thead>
<tr>
<th>Protective equipment</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equip cleanup crew with proper protection.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emergency procedures</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ventilate area.</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Methods for cleaning up</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Precautions for safe handling</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hygiene measures</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash hands thoroughly after handling.</td>
<td></td>
</tr>
</tbody>
</table>

7.2. Conditions for safe storage, including any incompatibilities

<table>
<thead>
<tr>
<th>Storage conditions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keep only in the original container in a cool, well ventilated place away from children. Keep container closed when not in use.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Incompatible products</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strong bases. strong acids.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Incompatible materials</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sources of ignition.</td>
<td></td>
</tr>
</tbody>
</table>

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.
Skin and body protection : Wear suitable protective clothing.
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
Color : White to light yellow.
Odor : Characteristic.
Odor threshold : No data available
pH : 2.05
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : 4.4 °C
Freezing point : 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 : No data available
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**

<table>
<thead>
<tr>
<th>Compound</th>
<th>LD50 oral rat</th>
<th>LD50 dermal rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clove Oil (8000-34-8)</td>
<td>1370 mg/kg (Rat)</td>
<td>1200 mg/kg (Rabbit)</td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td>&gt; 2000 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Causes skin irritation. pH: 2.05</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clove Oil (8000-34-8)</td>
<td></td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td></td>
</tr>
</tbody>
</table>

**Serious eye damage/irritation**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Causes serious eye damage. pH: 2.05</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clove Oil (8000-34-8)</td>
<td></td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td></td>
</tr>
</tbody>
</table>

**Respiratory or skin sensitization**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Not classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clove Oil (8000-34-8)</td>
<td></td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td></td>
</tr>
</tbody>
</table>

**Germ cell mutagenicity**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Not classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clove Oil (8000-34-8)</td>
<td></td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td></td>
</tr>
</tbody>
</table>

**Carcinogenicity**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Not classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clove Oil (8000-34-8)</td>
<td></td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td></td>
</tr>
</tbody>
</table>

**Reproductive toxicity**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Not classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clove Oil (8000-34-8)</td>
<td></td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td></td>
</tr>
</tbody>
</table>

**Specific target organ toxicity**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Not classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clove Oil (8000-34-8)</td>
<td></td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td></td>
</tr>
</tbody>
</table>

**Aspiration hazard**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Not classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clove Oil (8000-34-8)</td>
<td></td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td></td>
</tr>
</tbody>
</table>

**Potential Adverse human health effects and symptoms**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Based on available data, the classification criteria are not met.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clove Oil (8000-34-8)</td>
<td></td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td></td>
</tr>
</tbody>
</table>

**Symptoms/injuries after skin contact**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Causes skin irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clove Oil (8000-34-8)</td>
<td></td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td></td>
</tr>
</tbody>
</table>

**SECTION 12: Ecological information**

**12.1. Toxicity**

No additional information available

**12.2. Persistence and degradability**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonide BurnOut Fast Acting Weed and Grass Killer Ready to Use</td>
<td>Not established.</td>
</tr>
<tr>
<td>Clove Oil (8000-34-8)</td>
<td>Biodegradability in water: no data available.</td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td>No (test)data on mobility of the components available.</td>
</tr>
</tbody>
</table>

**12.3. Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonide BurnOut Fast Acting Weed and Grass Killer Ready to Use</td>
<td>Not established.</td>
</tr>
<tr>
<td>Clove Oil (8000-34-8)</td>
<td>No bioaccumulation data available.</td>
</tr>
<tr>
<td>Citric acid (77-92-9)</td>
<td>Not bioaccumulative.</td>
</tr>
</tbody>
</table>

**12.4. Mobility in soil**

No additional information available

**12.5. Other adverse effects**

Other information: Avoid release to the environment.
BurnOut Fast Acting Weed and Grass Killer Ready to Use
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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: Causes eye irritation. Wear safety glasses and gloves when applying. Do not get in eyes, on skin, or on clothing. Harmful if swallowed. In case of contact, immediately flush eyes with plenty of water. Get medical attention if irritation persists. Wash thoroughly with soap and water after handling.

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 (Dermal)</th>
<th>Acute toxicity (dermal) Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral) Category 4</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation Category 1</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>Skin corrosion/irritation Category 1A</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</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.