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

1.1. Product identifier

Product name: Bonide Systemic Rose & Flower Care 8-12-4
Product code: 2285874

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Insecticide, Fertilizer

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

GHS-US classification
Not classified

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US):

- GHS07

Signal word (GHS-US): Warning

Hazard statements (GHS-US):
- H315 – Causes Skin Irritation.
- H320 – Causes eye irritation.
- H355 – May cause respiratory irritation.
- H401 – Toxic to aquatic life.

Precautionary statements (GHS-US):
- P261 – Avoid breathing dust
- P264 – Wash Hands thoroughly after handling.
- P271 – Use only outdoors or in a well-ventilated area.
- P305+P351+P338 – If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing.
- P308+P313 - IF exposed or concerned: Get medical advice/attention
- P501 - Dispose of contents/container to in accordance with local/national regulations

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>CAS No.</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imidacloprid</td>
<td>138261-41-3</td>
<td>0.2</td>
<td>Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</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.

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. 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 eating, drinking or smoking and when leaving work. Protect from moisture.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a dry place. Keep container closed when not in use. Store in original container. 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
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 appropriate mask.
- Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state: Solid
- Appearance: Grayish brown granules.
- Colour: Brown.
- Odour: Minimal, if any.
- Odour threshold: No data available
- pH: 6.48
- Relative evaporation rate (butylacetate=1): No data available
- Melting point: No data available
- 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
- Vapour pressure: No data available
- Relative vapour density at 20 °C: No data available
- Relative density: 0.66 g/ml
- Solubility: Insoluble in water.
- 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
- Oxidising 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**
Hydrogen chloride and hydrogen cyanide and oxides of nitrogen and carbon.

**SECTION 11: Toxicological information**

11.1. **Information on toxicological effects**

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>: Not classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imidacloprid (138261-41-3)</td>
<td>500.000 mg/kg body weight</td>
</tr>
<tr>
<td>ATE (oral)</td>
<td></td>
</tr>
</tbody>
</table>
| Skin corrosion/irritation | : Not classified  
| pH: 6.48 |
| Serious eye damage/irritation | : Not classified  
| pH: 6.48 |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified  
| Based on available data, the classification criteria are not met |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified  
| Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified  
| Based on available data, the classification criteria are not met |
| Aspiration hazard | : Not classified  
| Based on available data, the classification criteria are not met |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |

**SECTION 12: Ecological information**

12.1. **Toxicity**
No additional information available

12.2. ** Persistence and degradability**
**Bonide Systemic Rose & Flower Care 8-12-4**
Persistence and degradability  
Not established.

12.3. **Bioaccumulative potential**
**Bonide Systemic Rose & Flower Care 8-12-4**
Bioaccumulative potential  
Not established.

12.4. **Mobility in soil**
No additional information available

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
Bonide Systemic Rose & Flower Care 8-12-4
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and 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. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

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>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 1</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H355</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H401</td>
<td>Toxic to aquatic life</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.