Bonide Liquid Plant Food 10-10-10
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 : Bonide Liquid Plant Food 10-10-10
Product code : 108

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : 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
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
Name ............................................ Product Identifier .............................. % ............ Classification (GHS-US)
Ammonium Polyphosphate (CAS No) 68333-79-9 ............................................ 27.5 .............................. Not classified
Muriate of Potash (CAS No) 7447-40-7 ............................................ 16.2 .............................. Not classified
Urea (CAS No) 57-13-6 ............................................ 15.2 .............................. Not classified

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 victim 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. 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.

#### 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. Provide good ventilation in process area to prevent formation of vapor. |

#### 7.2 Conditions for safe storage, including any incompatibilities

| Storage conditions | 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 | Blue Liquid. |
| Color | Colorless. |
Bonide Liquid Plant Food 10-10-10
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Odor: Minimal, if any.
Odor threshold: No data available
pH: 6 - 7.5
Relative evaporation rate (butyl acetate=1): No data available
Melting point: No data available
Freezing point: No data available
Boiling point: 212 °F
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: 9.6 lb./gal.
Solubility: Soluble 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
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>Substance</th>
<th>LD50 oral rat</th>
<th>LD50 dermal rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urea (57-13-6)</td>
<td>8471 mg/kg (Rat)</td>
<td>&gt; 3200 mg/kg (Rat)</td>
</tr>
<tr>
<td>Ammonium Polyphosphate (68333-79-9)</td>
<td>&gt; 21000 mg/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>5625 mg/kg (Rat)</td>
<td></td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 3160 mg/kg (Rabbit)</td>
<td></td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified
pH: 6 - 7.5
Bonide Liquid Plant Food 10-10-10  
Safety Data Sheet  
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Classification</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<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

**Urea (57-13-6)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>&gt; 6810 mg/l (96 h; Leuciscus idus)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 10000 mg/l (48 h; Daphnia magna)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>17500 mg/l (96 h; Poecilia reticulata)</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>&gt; 10000 mg/l (24 h; Daphnia magna)</td>
</tr>
<tr>
<td>TLM fish 1</td>
<td>17500 ppm (96 h; Poecilia reticulata)</td>
</tr>
<tr>
<td>Threshold limit other aquatic organisms 1</td>
<td>120000 mg/l (16 h; Bacteria; Toxicity test)</td>
</tr>
<tr>
<td>Threshold limit other aquatic organisms 2</td>
<td>&gt; 10000 mg/l (Pseudomonas putida)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>&gt; 10000 mg/l (168 h; Scenedesmus quadricauda)</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

**Bonide Liquid Plant Food 10-10-10**

- **Persistence and degradability**: Not established.
- **Urea (57-13-6)**
  - ThOD: 0.27 g O²/g substance
- **Ammonium Polyphosphate (68333-79-9)**
  - Persistence and degradability: Biodegradability in water: no data available. No (test)data on mobility of the components available.
- **Muriate of Potash (7447-40-7)**
  - Persistence and degradability: Biodegradability in water: no data available. No (test)data on mobility of the components available.

#### 12.3. Bioaccumulative potential

**Bonide Liquid Plant Food 10-10-10**

- **Bioaccumulative potential**: Not established.
- **Urea (57-13-6)**
  - BCF fish 1: 1 (72 h; Brachydanio rerio; Fresh water)
  - BCF other aquatic organisms 1: 11700 (Chlorella sp.)
  - Log Pow: -2.59 - -1.59
  - Bioaccumulative potential: Bioaccumulation: not applicable.
- **Ammonium Polyphosphate (68333-79-9)**
  - Bioaccumulative potential: No bioaccumulation data available.
- **Muriate of Potash (7447-40-7)**
  - Bioaccumulative potential: No bioaccumulation data available.

#### 12.4. Mobility in soil

- **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

<table>
<thead>
<tr>
<th>Waste disposal recommendations</th>
<th>Ecology - waste materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>: Dispose in a safe manner in accordance with local/national regulations.</td>
<td>: Avoid release to the environment.</td>
</tr>
</tbody>
</table>

### 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

#### 15.1. US Federal regulations

<table>
<thead>
<tr>
<th>Bonide Liquid Plant Food 10-10-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

#### 15.2. International regulations

No additional information available

#### 15.3. US State regulations

No additional information available

### SECTION 16: Other information

Other information : None.

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.*