Safety Data Sheet
Bi-Carb Old Fashioned Fungicide

1. Product and Company Identification

Company
Lawn and Garden Products, Inc.
PO Box 35000
Fresno, CA  93745-5000

Emergency Phone Number (24 Hr):
CHEMTREC®: 800-424-9300

Recommended use:
Curative, contact fungicide for control of powdery mildew

EPA Reg. No. 54705-10

2. Hazards Identification

GHS Classification:
Health hazards
Acute toxicity (Oral) Category 5
Acute toxicity (Dermal) Not classified
Acute toxicity (Inhalation) Not classified
Skin corrosion/irritation Not classified
Serious eye damage/irritation Not classified
Skin sensitization: Not classified
Respiratory Sensitization Not classified
Germ Cell Mutagenicity Not classified
Carcinogenicity Not classified
Reproductive Toxicity Not classified
Specific Target Organ Toxicity (Single Exposure) Not classified
Specific Target Organ Toxicity (Repeated or Prolonged Exposure) Not classified
Aspiration Hazard Not classified

Physical hazards
Explosives Not classified
Flammable Gases Not applicable
Flammable Aerosols Not applicable
Oxidizing Gases Not applicable
Gases under Pressure Not applicable
Flammable Liquids Not applicable
Flammable Solids Not classified
Self-Reactive Chemicals Not classified
Pyrophoric Liquids Not applicable
Pyrophoric Solids Not classified
Self-Heating Chemicals Not classified
Chemicals Which, In Contact with Water, Emit Flammable Gases Not classified
Oxidizing Liquids Not applicable
Oxidizing Solids Not classified
Organic Peroxides Not classified
Corrosive to Metals Not classified
GHS label elements

Symbol: No symbol
Signal words: Warning
Hazard statements: May be harmful if swallowed H303
Precautionary statements
Response: Call a POISON CENTER or doctor/physician if you feel unwell. (P312)

Hazards Not Otherwise Classified (HNOC): None known

3. Composition / Information on Ingredients
Substance/mixture: Mixture

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS Number</th>
<th>Composition (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydrogen carbonate</td>
<td>298-14-6</td>
<td>82</td>
</tr>
<tr>
<td>Surfactants and others</td>
<td>Trade secret</td>
<td>18</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

If inhaled:
Move to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

If on skin:
Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison center or doctor for treatment advice. Launder clothing before reuse.

If in eyes:
Immediately flush eyes with copious amounts of water for at least 15 minutes. Get medical attention.

If swallowed:
Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything to an unconscious person.

5. Fire-Fighting Measures

Extinguishing Media:
Foam, dry chemical, dry sand or carbon dioxide

Specific Hazards:
Give off carbon dioxide if heated to decomposition.

Specific fire-fighting measures:
In fire situations involving the surrounding area, cool the product down with plenty of water. Move container to safe place if you can do it without risk.
Protection of fire-fighters:
Wear full fire-fighting turnout gear (full bunker gear) and respiratory protection (self-contained breathing apparatus).

6. Accidental release measures

Personal precautions:
Wear appropriate personal protective equipment (refer to Section 8) during clean-up. Avoid contact with eyes and skin. Avoid inhalation of dust.

Environmental precautions:
Avoid entry into the water way.

Cleanup:
Shut off all sources of ignition.
Avoid raising dust. Sweep up, place in a solid waste containers for later disposal. Mop area with water after material has been picked up.

7. Handling and Storage

Handling
Handle with appropriate personal protective equipment (refer to Section 8) under ventilation. Avoid contact with eyes and skin. Avoid inhalation of dust. Avoid prolonged or repeated exposure. Avoid raising dust.
Do not eat or smoke while handling.
Wash hands thoroughly after handling.

Storage
Store in a cool place.
Keep tightly closed.
Keep all foods in separate area away.
Store in a place that is inaccessible to children.

8. Exposure Controls and Personal Protection

Engineering measures:
Mechanical exhaust and/or local exhaust are necessary.

Control parameters:
There is no TLV specified by ACGIH.
(ACGIH) Particles Not Otherwise Specified
OSHA 1910.1000 Table Z-3
Inert or Nuisance Dust
Respirable Fraction: 5 mg/m³
Total dust: 15 mg/m³

Personal protective equipment
RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:
Respiratory protection:
Wear respirator which is approved or made according to a standard approved by the relevant national body for health and safety.

Hand protection:
Rubber gloves

Eye protection:
Safety goggles

Skin and body protection:
Long-sleeved shirt and long pants and shoes plus socks

General safety and hygiene measures:
Wash thoroughly after handling. Launder clothing before reuse. Follow good industrial hygiene practices for ventilation and clean up.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Powder</td>
</tr>
<tr>
<td>Form</td>
<td>Powder</td>
</tr>
<tr>
<td>Color</td>
<td>Like white</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not known or applicable</td>
</tr>
<tr>
<td>pH value</td>
<td>8.5</td>
</tr>
<tr>
<td>Melting temperature</td>
<td>Not applicable/Active ingredient</td>
</tr>
<tr>
<td>Boiling temperature</td>
<td>Not applicable/Active ingredient</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Start at 100°C, and decompose into potassium carbonate, carbon dioxide and water at 200°C. /Active ingredient</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Auto ignition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explodability</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not applicable/Active ingredient</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Bulk density</td>
<td>0.55</td>
</tr>
<tr>
<td>Partitioning coefficient n-octanol/water(log Pow)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>600 g/L (60°C)/Active ingredient</td>
</tr>
<tr>
<td>Other data</td>
<td></td>
</tr>
<tr>
<td>Explosion limit</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

Stability:
This product is stable under normal condition of handling and storage.

Conditions to avoid:
Avoid store in high temperature.
Materials to avoid:
Oxidizing agents

Hazardous decomposition products:
This product is decomposed at above 100°C, and generate harmful gas such as carbon dioxide.

11. Toxicological information

Acute toxicity
Oral: \(LD_{50}: 3822 \text{ mg/kg (Male rats)}, 2931 \text{ mg/kg (Female rats)}\)
Dermal: \(LD_{50}: >2020 \text{ mg/kg (Rabbits)}\)

Skin corrosion/irritation: Mild irritation (Rabbits)
Serious eye damage/eye irritation: Minimal irritation (Rabbits)
Skin sensitization: Negative (Guinea-pigs)

Routes of exposure:

Carcinogenicity
National Toxicology Program (NTP) Report on Carcinogens Not listed
International Agency for Research on Cancer (IARC) Not listed
OSHA Specified Carcinogen Not listed

12. Ecological Information

Aquatic toxicity: Not available

13. Disposal considerations

Do not apply directly to water, or to area where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

Pesticide disposal:
Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container disposal:
Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then dispose of empty bag, by recycling if available, or in a sanitary landfill, or by incineration or, if allowed by State and local authorities, by burning. If buried, stay out of smoke.

14. Transport Information

Specific safety measures and conditions on transport:
The cautions which should be taken during transportation are same as the cautions mentioned in Section 7. In case of accidental release or fire during transportation, see the
instructions given in Section 5, 6, 7 and 8 above.

**UN CLASSIFICATION:** Not applicable
**UN NUMBER:** Not applicable

### 15. Regulatory Information

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels or non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

**Hazards to Humans and Domestic Animals**

**CAUTION**

Harmful if swallowed, absorbed through skin, or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using toilet. Remove contaminated clothing and wash clothing before reuse.

### 16. Other Information

This Safety Data Sheet is being furnished to the immediate purchaser of the material to which it refers without representation or warranty as to the completeness or accuracy of any information or recommendations contained herein. This Safety Data Sheet is not intended to create any liability of any kind on the part of Lawn and Garden Products, Inc.

This Safety Data Sheet is furnished upon the express condition that all persons receiving it will make their own determination as to its suitability for their purposes prior to use as well as its suitability for actual conditions under which the product will be used, processed, transported or deposited. This Safety Data Sheet is furnished also upon the express condition that Lawn and Garden Product, Inc. shall be indemnified and held harmless by the purchaser, user, transporter and keeper of the material from any damage, loss or expense suffered from any claims of third parties against Lawn and Garden Products, Inc. arising from or in connection with any use, transportation or storage of the material. Responsibility for compliance with applicable federal, state or local regulations concerning dissemination of the Safety Data Sheet and sale and use of the material to which it refers rests solely upon the purchaser.

Date Prepared: 2016-05 (OAT Agrio-2016/05/28)