1. Identification

Product name Black Strap Molasses
Product code MOLASS
Other Identification: Chemical Family: Inverted syrup from the juice of sugar cane
Formula: Molasses
Recommended use Turf, Horticulture & Agriculture
Manufacturer & Distributor information

Corporate Office Plant Food Company, Inc.
38 Hightstown-Cranbury Station Road
Cranbury, NJ 08512 United States

Telephone Information: 1-609-448-0935
Website www.plantfoodco.com
E-mail pfc@plantfoodco.com
Contact person Grant Platz, Ted Platz

Emergency phone number 1-800-424-9300 CCN725928
Call CHEMTREC Day or Night Within USA and Canada or +1 703-527-3887 (collect calls accepted)
Other Countries 1-609-448-0935

2. Hazard(s) identification

Physical hazards This material is not a "health hazard" or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration Hazard Communication Standard, 20 CFR 1910.1200

Health hazards Acute toxicity, oral
Serious eye damage/eye irritation
Specific target organ toxicity, single exposure

Environmental hazards Hazardous to the aquatic environment, acute hazard

OSHA defined hazards Label elements Not classified.

Signal word Warning

Hazard statement May intensify fire; oxidiser, Causes serious eye irritation.

Precautionary statement Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not ingest. If swallowed: Call a poison center/doctor if you feel unwell. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. If eye irritation persists: Get medical advice/attention.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information

3. Composition/information on ingredients

Proprietary Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Synonym</th>
<th>CAS Number</th>
<th>EINECS No.</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molasses Blackstrap</td>
<td>Molasses Blackstrap</td>
<td>8052-35-5</td>
<td>232-487-2</td>
<td>100.00</td>
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</table>

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First aid measures

Inhalation Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has
Skin contact Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Continue
Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Remove contact lenses, if
Ingestion Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. If victim is conscious, give two to four glasses of water and induce vomiting by touching finger to back of throat. Obtain medical attention.

Most important symptoms/effects, acute and delayed Irritation of eyes and mucous membranes.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim warm. In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

5. Fire-fighting measures
### SAFETY DATA SHEET  Black Strap Molasses

**Flammable Properties:**
- NFPA: Health - 0  Flammability - 0  Reactivity - 0
- Suitable extinguishing media: Non-combustible. Water
- Unsuitable extinguishing media: Not applicable.

**Specific hazards arising from the chemical**
- During fire, gases hazardous to health may be formed. Heating (flames) of closed or sealed containers may cause violent rupture of container due to thermal expansion of compressed gasses. In case of fire, may produce hazardous decomposition products such as nitrogen oxides (NO, NO₂, etc.), ammonia (NH₃), amines. Vapors are irritating to eyes, skin and respiratory tract.

**Special protective equipment and precautions for firefighters**
- Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk. Keep containers/storage vessels infire area cooled with water spray.

**Fire-fighting equipment/instructions**
- Move container from fire area if it can be done without risk.

**General fire hazards**
- Heating this product will evolve ammonia

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
- Keep people away from and upwind of spill/leak. Keep out of low areas. Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment.
- If this material is involved in a fire, the fire-fighters must wear self-contained breathing apparatus and full protective clothing.

**Methods and materials for containment and cleaning up**
- Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
- Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions**
- Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further spread.

### 7. Handling and storage

**Precautions for safe handling**
- Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Observe good industrial hygiene practices. Wash hands and exposed skin after handling.

**Conditions for safe storage, including any incompatibilities**
- Store locked up. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

**Occupational exposure limits**
- No exposure limits noted for ingredient(s).

**Biological limit values**
- No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**
- Provide eyewash station.

**Individual protection measures, such as personal protective equipment**
- Wear eye/face protection. Wear safety glasses with side shields (or goggles).

**Skin protection**
- Wear suitable protective clothing.
- Avoid contact with eyes.

**Respiratory protection**
- Wear suitable protective clothing. Wash contaminated clothing prior to reuse.

**Thermal hazards**
- Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**
- When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling.

### 9. Physical and chemical properties

**Appearance**
- Black, thick liquid

**Physical state**
- Liquid.

**Form**
- Liquid.

**Color**
- Black, thick liquid

**Odor**
- Sweet smell

**Odor threshold**
- Not available.

**pH**
- 5.1

**Salt-Out / Crystallization Temp**
- 0 °F(-17.8°C) (Typical)

**Melting point/freezing point**
- 219°F (104.4°C)

**Flash point**
- Not determined

**Evaporation rate**
- Not applicable

**Flammability (solid, gas)**
- Not applicable

**Upper/lower flammability or explosive limits**
- Not available.

**Flammability limit - lower (%)**
- Not available.

**Flammability limit - upper (%)**
- Not available.

**Explosive limit - lower (%)**
- Not available.

**Explosive limit - upper (%)**
- Not available.

**Vapor pressure**
- Not determined

**Vapor density**
- Not available.

**Relative density**
- Not available.

**Solubility**
- Easily soluble in water

**Solubility (water)**
- 100%

**Partition coefficient (n-octanol/water)**
- Not available.

**Auto-ignition temperature**
- Not available.
**Decomposition temperature**  
Data not available

**Viscosity**  
Data not available

**Other information**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pounds per gallon</td>
<td>11.7 lbs/gal</td>
</tr>
<tr>
<td>Shelf life</td>
<td>&gt; 2 years</td>
</tr>
</tbody>
</table>

10. **Stability and reactivity**

**Reactivity**  
Avoid interaction with heat (flames), oxidizers, acids or alkalis (see details below in this section). Stable under recommended storage and handling conditions. Stable in normal temperatures and pressure.

**Material stability**  
Material is stable under normal conditions.

**Possibility of hazardous reactions**  
Strong oxidizers such as nitrates, nitrates or chlorates can cause explosive mixtures if heated to dryness. Temperatures above 120°F (49°C) may cause the release of sulfur dioxide, a severe respiratory irritant. This product is not compatible with copper, zinc or their alloys including brass, bronze or galvanized materials. These materials should not be utilized in handling systems or storage containers for this product.

**Incompatible materials**

When heated, decomposition products. UAN will form urea-nitrate when mixed with nitric acid at low pH. Urea-nitrate may become unstable and/or explosive under certain conditions.

11. **Toxicological information**

**Information on likely routes of exposure**

<table>
<thead>
<tr>
<th>Route</th>
<th>Data not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
</tr>
<tr>
<td>Skin contact</td>
<td></td>
</tr>
<tr>
<td>Eye contact</td>
<td></td>
</tr>
<tr>
<td>Chronic/Carcinogenicity:</td>
<td>No evidence available</td>
</tr>
<tr>
<td>Teratology:</td>
<td>Data not available.</td>
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<tr>
<td>Reproduction:</td>
<td>Data not available.</td>
</tr>
<tr>
<td>Mutagenicity:</td>
<td>Data not available.</td>
</tr>
</tbody>
</table>

12. **Ecological information**

**Ecotoxicity**  
Data not available.

**Persistence and degradability**  
Data not available.

**Bioaccumulative potential**  
This product is not bioaccumulative.

**Mobility in soil**  
Data not available.

**Other adverse effects**  
Data not available.

13. **Disposal considerations**

**Disposal instructions**  
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, streams, surface water, groundwater, or landfills.

**Hazardous waste code**  
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products**  
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**  
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may not have any label, marking or identifier of any hazardous materials, they must be handled as hazardous materials.

14. **Transport information**

**DOT**  
Not regulated as dangerous goods.

**IATA**  
Not regulated as dangerous goods.

**IMDG**  
Not regulated as dangerous goods.

15. **Regulatory information**

**US federal regulations**

- TSCA Section 12(b) Export Notification (40 CFR 707, Subpart D)  
  Not regulated.

- CERCLA Hazardous Substance List (40 CFR 302.4)  
  Not listed.

- SARA 304 Emergency release notification  
  Not regulated.

  Immediate Hazard - No  
  Delayed Hazard - No  
  Fire Hazard - No  
  Pressure Hazard - No  
  Reactivity Hazard - No  
  Not listed.

- SARA 302 Extremely hazardous substance  
  Section 313 (FORM R):  
  Not applicable

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**  
Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.
Safe Drinking Water Act (SDWA) Not regulated.
US. California Proposition 65 WARNING: This product contains a chemical known to the State of California to cause birth defects or other

16. Other information, including date of preparation or last revision

| Issue date | 6/1/2015 |
| Revision date | 7/15/2013 |
| Version # | 2 |

Disclaimer

While the information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that the products, or information may be used without infringing the intellectual property rights of others. In no case shall the information provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the information furnished by our company hereunder are given gratis and we assume no obligation or liability for the information given or results obtained, all such being given and accepted at your risk.

Revision Information

Composition / Information on Ingredients: Ingredients

Physical & Chemical Properties: Multiple Properties