



SAFETY DATA SHEET Black Strap Molasses

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
Information: 1-609-448-0935
www.plantfoodco.com
pfc@plantfoodco.com
Telephone Grant Platz, Ted Platz
Website
E-mail
Contact person
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
Category 4
Category 2A
Category 3
respiratory tract irritation
Category 2

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
Prevention Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapor. Wash thoroughly after handling. Do
Response 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.
Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
None known.

Storage
Disposal
Hazard(s) not otherwise classified (HNOC)
Supplemental information

3. Composition/Information on Ingredients

Proprietary Ingredients

Chemical Name	Synonym Common Name	CAS Number	EINECS No.	%
Molasses Blackstrap	Molasses Blackstrap	8052-35-5	232-487-2	100.00

Other components below reportable levels

*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



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Flammable Properties:

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

NFPA: Health - 0 Flammability - 0 Reactivity - 0

Non-combustible. Water

Not applicable.

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

Fire-fighting equipment/instructions

Specific methods

General fire hazards

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 in fire area cooled with water spray.

Move container from fire area if it can be done without risk.

Heating this product will evolve ammonia

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

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 clothing. Stop the flow of material, if this is without risk.

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

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

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

Eye/face protection

Wear eye/face protection. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

Other

Wear suitable protective clothing. Wash contaminated clothing prior to reuse.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

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

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

Melting point/freezing point

0 °F(-17.8°C) (Typical))

Initial boiling point and boiling range

219°F (104.4°C)

Flash point

Not available.

Evaporation rate

Not determined

Flammability (solid, gas)

Not applicable

Upper/lower flammability or explosive limits

Not applicable

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

Solubility

Easily soluble in water

Solubility (water)

100%

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

Not available.

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Decomposition temperature Data not available

Viscosity

Other information

Pounds per gallon

11.7 lbs/gal

Shelf life

> 2 years

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.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

Strong oxidizers such as nitrates, nitrites or chlorates can cause explosive mixtures if heated to dryness

Conditions to avoid

Temperatures above 120°F (49°C)

Incompatible materials

Strong oxidizers. Acids will 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.

Hazardous decomposition products

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

Oral

Data not available.

Inhalation

Data not available.

Skin contact

Data not available.

Eye contact

Data not available.

Chronic/Carcinogenicity:

No evidence available

Teratology:

Data not available.

Reproduction:

Data not available.

Mutagenicity:

Data not available.

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,

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

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

Regulation EC 1907/2006 (REACH), Fertilizer Directive EC 2003/2003

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt.

Not regulated.

D)

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR

Not listed.

1910.1001-1050)

Hazard categories

Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

Section 313 (FORM R):

Not applicable

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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Clean Air Act (CAA) Section 112(r) Accidental Release
Prevention (40 CFR 68.130)
Safe Drinking Water Act (SDWA)
US. California Proposition 65

Not regulated.

Not regulated.

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

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