

# California Organic Fertilizers, Inc.™

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## MATERIAL SAFETY DATA SHEET

### Phyta-Molasses QC™

#### SECTION I. IDENTIFICATION

Chemical Family: N/A

Chemical Name and Synonyms: Molasses

Formula: Mixture

Trade Name and Synonyms: Phyta-Molasses QC™

#### SECTION II. PRODUCT AND COMPONENT HAZARD DATA

A. Components:	CAS. Reg. No:	TLV:
Molasses	68476-78-8	N/A

#### SECTION III. PHYSICAL DATA

- |   |   |
|---|---|
| - <u>Appearance and Odor:</u> Brown liquid, typically sweet odor. | - <u>Boiling Point:</u> Various           |
| - <u>Specific Gravity:</u> Various                                | - <u>Vapor Pressure:</u> N/A              |
| - <u>Percent Volatile by Volume:</u> N/A                          | - <u>Vapor Density (Air = 1):</u> N/A     |
| - <u>Evaporation Rate (Ethyl Ether = 1):</u> N/A                  | - <u>Solubility in Water:</u> Appreciable |

#### SECTION IV. FIRE AND EXPLOSION HAZARD DATA

- |  |  |
|--|--|
| - <u>Flash Point:</u> N/A                        | - <u>Extinguishing Agent:</u> N/A              |
| - <u>Flammable Limits:</u> N/A                   | - <u>Special Fire-Fighting Procedures:</u> N/A |
| - <u>Unusual Fire and Explosion Hazards:</u> N/A |  |

#### SECTION V. REACTIVITY DATA

- |  |  |
|--|--|
| - <u>Stability:</u> Stable                         | - <u>Incompatibility:</u> N/A                  |
| - <u>Hazardous Polymerization:</u> Will not occur. | - <u>Hazardous Decomposition Products:</u> N/A |

#### SECTION VI. TOXICITY AND HEALTH

##### A. EXPOSURE LIMITS

- OSHA Permissible Exposure Limit (PEL): N/A
- Threshold Limit Value (TLV): N/A

##### B. EFFECTS OF OVEREXPOSURE

- Inhalation: Insufficient oxygen may be present in vessels containing the product due to the generation of carbon monoxide during fermentation.
- Eyes: Mild irritant.
- Skin: None.

##### C. EMERGENCY FIRST AID PROCEDURES

- Inhalation: No data.
- Eyes: Flush eyes for 15 minutes.
- Skin: Wash with soap and water. Rinse thoroughly.

##### D. ANIMAL TOXICITY DATA

N/A

#### SECTION VII. PERSONAL PROTECTION AND CONTROLS

##### A. RESPIRATORY PROTECTION

- N/A

##### B. VENTILATION

- N/A

##### C. SKIN AND EYE PROTECTION

- N/A

##### D. OTHER CONTROL MEASURES

- N/A

**SECTION VIII. SPECIAL STORAGE AND HANDLING PRECAUTIONS**

Molasses is a viscous material especially resistant to flow when cold. It is advisable to keep molasses heated to a temperature of 80°F to 110°F. Excessive heating can result in charring and/or caramelization. The resulting char can create problems by plugging or damaging pumps and meters. Positive displacement pumps are recommended for molasses handling because of their efficiency in pumping viscous materials. Tanks should be vented to the atmosphere. The use of gloves and goggles is suggested as part of the normal everyday work safety precaution.

**SECTION IX. SPILL, LEAK, AND DISPOSAL PRACTICES**

- Steps to be Taken in Case Material is Released or Spilled: General clean-up.
- Waste Disposal Method: Flush with water.

**SECTION X. ENVIRONMENTAL EFFECTS DATA**

N/A

**SECTION XI. TRANSPORTATION**

N/A

**SECTION XII. REFERENCES**

1. The Merck Index: An Encyclopedia of Chemicals and Drugs, 1983 10th ed., Merck and Company, Rahway, N.J.
2. Dangerous Properties of Industrial Materials, 5th ed., 1979, Sax, N.I., Van Nostrand Reinhold & Co., N.Y., N.Y.
3. 29 C F R 1910 General Industry OSHA Safety and Health Standards., U.S. Department of Labor, Occupational Safety and Health Administration. Rev. 1983, 1985.
4. Threshold Limit Values for Chemical Substances and Physical Agents in the Workroom Environment with Intended Changes. American Conference of Governmental Industrial Hygienists, Cincinnati, OH. 1985.
5. Handbook of Chemistry and Physics, Chemical Rubber Co., Cleveland, OH.
6. Water Quality Criteria, J.E. McKee and H.W. Wolf, Editors., Pub. No. 3-A (Revised). State of California, 1963.
7. Registry of Toxic Effects of Chemical substances: 1983 Supplement to the 1981-1982 Edition. National Institute of Occupational Safety and Health, 1984.

**IMPORTANT**

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