

California Organic Fertilizers, Inc.™

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MATERIAL SAFETY DATA SHEET

Phyta-Guard® Concentrate Liquid Natural Repellent Oil

SECTION I. IDENTIFICATION

Chemical Family: N/A -- Mixture

Chemical Name and Synonyms: Emulsified soybean oil, essential oils

Formula: Proprietary

Trade Name and Synonyms: Phyta-Guard® Concentrate Liquid

SECTION II. PRODUCT AND COMPONENT HAZARD DATA

A.	Components:	CAS. Reg. No:	TLV:
	Clove Oil	8000-34-8	N/A
	Citronella	8000-29-1	N/A
	Soybean Oil	8001-22-7	N/A
	Lecithin	8002-43-5	N/A
	Geranium Oil	8000-46-2	N/A

SECTION III. PHYSICAL DATA

- Appearance and Odor: Pale yellow to amber liquid; slight aromatic odor
- Boiling Point: Not known
- Specific Gravity: .91 to 1.04
- Vapor Pressure: N/A
- Percent Volatile by Volume: Not known
- Vapor Density (Air = 1): N/A
- Evaporation Rate (Ethyl Ether = 1): < 1
- Solubility in Water: Immiscible; will emulsify

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

- Flash Point: >400 F
- Extinguishing Agent: CO₂, Foam or dry chemicals
- Flammable Limits: Not established.
- Special Fire-Fighting Procedures: Wear self-contained breathing apparatus. Water is unsuitable for use on burning materials, may be used to cool containers exposed to heat.
- Unusual Fire and Explosion Hazards: None. Material is not pyrophoric. Does not react with Water. Material is shock stable.

SECTION V. REACTIVITY DATA

- Stability: Stable
- Incompatibility: Oxidizers; Heat and light sensitive.
- Hazardous Polymerization: N/A
- Hazardous Decomposition Products: May form Carbon Monoxide or Carbon Dioxide upon burning.

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

1. ACUTE
 - a. Inhalation: Mist may be irritating.
 - b. Eyes: May be irritating.
 - c. Ingestion: Nausea, vomiting, diarrhea.
 - d. Skin: May be irritating after prolonged exposure.
2. CHRONIC Not known.

C. EMERGENCY FIRST AID PROCEDURES

- Inhalation: Remove from exposure area. If irritation exists from mists, or in the event of massive inhalation, seek medical attention.
- Eyes: Rinse thoroughly with running water for 15 minutes. Seek medical attention.
- Ingestion: If conscious, drink at least 2 glasses of milk or water. Do not induce vomiting. Consult a physician.
- Skin: Wash with soap and water. Rinse thoroughly. Seek medical attention if inflammation occurs.

D. ANIMAL TOXICITY DATA

N/A

SECTION VII. PERSONAL PROTECTION AND CONTROLS

A. RESPIRATORY PROTECTION

- As required by conditions. Use an OSHA or NIOSH approved respirator if required.

B. VENTILATION

- General: Usually adequate.
- Local Exhaust: Should be used for safe, comfortable working conditions.

SECTION VII. PERSONAL PROTECTION AND CONTROLS (continued)**C. SKIN AND EYE PROTECTION**

- Safety glasses should be worn in any type of industrial operation. Protective gloves should be worn as good hygiene dictates.

D. OTHER CONTROL MEASURES

- An eye bath and washing facilities should be available. Wash thoroughly after handling. Do not smoke when handling chemicals.

SECTION VIII. SPECIAL STORAGE AND HANDLING PRECAUTIONS

Since emptied packages retain product residue follow label warning even after package is emptied. Dried residue can constitute a fire hazard. Keep equipment and workplace clean.

SECTION IX. SPILL, LEAK, AND DISPOSAL PRACTICES

- Steps to be Taken in Case Material is Released or Spilled: Collect and contain for salvage or disposal. Absorb waste on inert media and dispose of as solid waste.
- Waste Disposal Method: Landfill in compliance with all federal, state and local laws concerning health and environment.

SECTION X. ENVIRONMENTAL EFFECTS DATA**SUMMARY**

This product has not been tested for environmental effects, but because of its nature, no adverse effects are anticipated in normal use. Emulsifiable oils could cause suffocation of fish or other marine organisms if introduced directly into bodies of water in large quantities.

SECTION XI. TRANSPORTATION

- DOT Hazard Classification: Non-hazardous

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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