

California Organic Fertilizers, Inc.™

7600 N. Ingram Ave., Suite 121, Fresno, CA 93711 (559) 443-5690 Fax (559) 582-2011

MATERIAL SAFETY DATA SHEET Phytamin® Liquid Humic Acid

SECTION I. IDENTIFICATION

Chemical Family: Mixture

Chemical Name and Synonyms: NA -- Mixture

Formula: Proprietary

Trade Name and Synonyms: **Humic Acid**

SECTION II. PRODUCT AND COMPONENT HAZARD DATA

A.	Components:	CAS. Reg. No:	TLV:
	Potassium Hydroxide	1310-58-3	
	Lignite	n/a	

SECTION III. PHYSICAL DATA

- <u>Appearance and Odor</u> : Brown liquid; odor-less	<u>Boiling Point</u> : 212 ° F.
- <u>Specific Gravity</u> : 1.12	<u>Vapor Pressure</u> : 30 mm (approximately)
- <u>Percent Volatile by Volume</u> : None	<u>Vapor Density (Air = 1)</u> : Not known
- <u>Evaporation Rate (Ethyl Ether = 1)</u> : < 1	<u>Solubility in Water</u> : > 99%
- <u>pH</u> : 12.0	

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

- Flash Point: N/A Flammable Limits: N/A

- Special Fire-Fighting Procedures: Firefighters should wear self-contained positive pressure breathing apparatus.

- Extinguishing Agent: Water

- Unusual Fire and Explosion Hazards: None

SECTION V. REACTIVITY DATA

- Stability: Stable Incompatibility: Acids

- Hazardous Polymerization: Not known Hazardous Decomposition Products: None

SECTION VI. TOXICITY AND HEALTH

A. EXPOSURE LIMITS

- OSHA Permissible Exposure Limit (PEL): Potassium Hydroxide = 2 mg/m³
- Threshold Limit Value (TLV): Not established

B. EFFECTS OF OVEREXPOSURE

1. ACUTE

- Inhalation: May cause irritation. May cause pulmonary edema at high exposure rates.
- Eyes: May cause irritation or ulceration.
- Ingestion: Nausea, vomiting, diarrhea.
- Skin: May cause irritation.

2. CHRONIC Not known.

C. EMERGENCY FIRST AID PROCEDURES

- Inhalation: Inhalation of mist can cause mild irritation.
- Eyes: Major potential hazard. Liquid in eyes can cause serious damage. Rinse thoroughly with running water for 15 minutes. Seek medical attention.
- Ingestion: Ingestion can cause severe burning and pain in lips, mouth, tongue, throat, and stomach. Drink large quantities of water and induce vomiting. Consult a physician.
- Skin: Wash with soap and water. Rinse thoroughly. Seek medical attention if inflammation occurs.

D. ANIMAL TOXICITY DATA

Not listed or established

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: Not normally required. Use if needed for safe, comfortable working conditions.
- Local Exhaust: Not normally required. Use if needed for safe, comfortable working conditions.

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.

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. Neutralize with a mild acid solution. 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**

No environmental impact studies have been performed with this product. A review of the information available on the ingredients does not indicate any potential hazard to the environment under anticipated conditions of storage, handling or usage.

SECTION XI. TRANSPORTATION

- DOT Hazard Classification: Non-hazardous, non-regulated

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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