

California Organic Fertilizers, Inc.

SAFETY DATA SHEET – PHYTAMIN PURE

U.S. Patent No. 11,518,720



**CALIFORNIA ORGANIC
FERTILIZERS INC.**

Section 1. Identification

Product Identifier: Phytamin Pure
Chemical Name: Aqueous Ammonia
Recommended Use: Fertilizer

Manufacturer Name: California Organic Fertilizers, Inc.
10585 Industry Ave.
Hanford, CA 93230

Telephone Number: (559) 585-4705

In Case of Emergency Call: 800-269-5690

Section 2. Hazard(s) Identification

OSHA Hazards: Toxic by ingestion, corrosive
Target Organs: None
Signal Words: Danger

GHS Classification:

Skin Irritation: Category 2
Serious Eye Damage: Category 1
Acute Aquatic Toxicity: Category 1

GHS Label Elements (Including Precautionary Statements)

Hazard Statements:

H315 – Causes skin irritation.
H318 – Causes serious eye damage.
H400 – Very toxic to aquatic life.

Precautionary Statements:

P273 – Avoid release to the environment.
P280 – Wear protective gloves/eye protection/face protection.
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

Potential Health Effects

Eyes: Causes eye burns.
Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin: May be harmful if absorbed through skin. Causes skin burns if left on skin.
Ingestion: Toxic if swallowed.

NFPA Ratings

Health	2
Flammability	0
Reactivity	0
Specific Hazard	N/A

HMIS Ratings

Health	2
Fire	0
Reactivity	0
Personal	H

Section 3. Composition / Information on Ingredients

Ammonium Hydroxide (1336-21-6), 3-5% (as Ammonia).

Water (7732-18-5), 95-97%

Section 4. First-Aid Measures

Inhalation: Move casually to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Skin Contact: Flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if needed.

Eye Contact: Rinse with plenty of water for at least 15 minutes and seek medical attention.

Ingestion: **Do Not Induce Vomiting!** Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.

Section 5. Fire-Fighting Measures

Suitable Extinguishing Media: Product is not flammable. Use appropriate media for adjacent fire. Cool containers with water.

Specific Hazards Arising from the Chemical: Emits toxic fumes under fire conditions. (Nitrogen oxides, ammonia) (See also Stability and Reactivity section)

Special Protective Equipment and Precautions for Firefighters: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures: Wear appropriate protective clothing as described in Section 8.

Environmental Precautions: Prevent spillage from entering drains. Report releases as required by local and federal authorities.

Methods and Materials for Containment and Cleaning Up: Neutralize spill with weak acid (citric acid). Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

Section 7. Handling and Storage

Precautions for Safe Handling: Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash hands thoroughly with soap and water after use. Keep container closed when not in use. Avoid formation of aerosols.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, dry, well-ventilated area. Keep away from incompatible materials (see Section 10 for incompatibilities). Protect from physical damage.

Section 8. Exposure Controls / Personal Protection

Component	Exposure Limits	Basis	Entity
Ammonia	18 mg/m ³ 25 ppm	REL	NIOSH
	27 mg/m ³ 35 ppm	STEL	NIOSH
	35 mg/m ³ 50 ppm	PEL	OSHA
	17 mg/m ³	TLV	ACGIH
	24 mg/m ³	STEL	ACGIH

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

Personal Protection

Eye Protection: Wear chemical safety glasses or goggles.

Respiratory Protection: Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.

Skin Protection: Impermeable or chemical resistant gloves; apron, lab coat, or similar PPE. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Other Equipment: Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

Section 9. Physical and Chemical Properties

Appearance: Cloudy, colorless liquid.

Odor Threshold: N/A

Melting/Freezing Point: 0° C (32° F)

Flash Point: Not Flammable

Flammability (solid, gas): Not flammable

Flammable Limits: Not flammable

Vapor Pressure: 14 mmHg @ 20° C

Relative Density: Not Available

Partition Coefficient: n-octanol/water

Decomposition Temperature: N/A

Odor: Strong ammonia odor.

pH: 8.5 to 11

Boiling Point: 100° C (212° F)

Evaporation Rate: Not Available

Specific Gravity: 1

UEL: N/A

Vapor Density: 0.7 (Air=1)

Solubility (ies): Soluble in water

Auto-ignition Temperature: N/A

Viscosity: N/A

Section 10. Stability and Reactivity

Chemical Stability: Stable.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: High temperatures.

Incompatible Materials: Oxidizing agents, acids, halogens, heavy metals.

Hazardous Decomposition Products: Nitrogen oxides, ammonia.

Section 11. Toxicological Information

Acute Toxicity

Inhalation: Not available.

Ingestion: LD50 Oral – rat – 350 mg/kg.

Skin Contact: Not available.

Eye Contact: Not available.

Signs & Symptoms of Exposure

Skin: Redness, itching.

Eyes: Irritation, redness, tearing, itching, burning, conjunctivitis.

Respiratory: Irritation of mucous membranes, coughing, wheezing, shortness of breath.

Ingestion: Irritation and burning sensations of mouth and throat, nausea, vomiting, abdominal pain.

Chronic Toxicity: Not Available

Teratogenicity: No available data.

Mutagenicity: May cause damage to mucous membranes, skin, and eyes.

Specific Target Organ Toxicity: May cause damage to mucous membranes, skin, and eyes.

Reproductive Toxicity: None

Respiratory/Skin Sensitization: May cause damage to mucous membranes, skin, and eyes.

Section 12. Ecological Information

Aquatic Vertebrate: LC50 – Water flea – 0.66 mg/l – 48 hours
LC50 – Fathead minnow – 8.2 mg/l – 96 hours

Aquatic Invertebrate: Not Available

Terrestrial: Not Available

Persistence and Degradability: Readily Biodegradable

Bioaccumulative Potential: Not Available

Mobility in Soil: Readily Biodegradable

PBT and vPvB Assessment: Not Available

Other Adverse Effects: Very toxic to aquatic life in concentrated form.

Section 13. Disposal Considerations

Waste Residues: Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste products or residues.

Product Containers: Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste products or residues.

The information offered in section 13 is for the product as shipped. User and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

Section 14. Transport Information

US DOT: UN1760, CORROSIVE LIQUID, N.O.S. (contains ammonia), Class 8
TDG: UN1760, CORROSIVE LIQUID, N.O.S. (contains ammonia), Class 8
IMDG: UN1760, CORROSIVE LIQUID, N.O.S. (contains ammonia), Class 8
IATA/ICAO: UN1760, CORROSIVE LIQUID, N.O.S. (contains ammonia), Class 8
Marine Pollutant: Yes

Section 15. Regulatory Information

TSCA Inventory Status: All ingredients are listed on the TSCA inventory.
DSCL (EEC): All ingredients are listed on the DSCL inventory.
California Proposition 65: Not Listed
SARA 302: Not Listed
SARA 304: Not Listed
SARA 311: Acute Health Hazard
SARA 312: Acute Health Hazard
SARA 313: Listed: Ammonium Hydroxide

Section 16. Other Information

Date of Preparation: June 22, 2020

Date of Last Revision: July 3, 2020

Important:

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. California Organic Fertilizers, Inc. **MAKES NO WARRANTIES EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY OR COMPLETENESS OF THE INFORMATION AND DATA HEREIN. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED.** California Organic Fertilizers, Inc. will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading.