

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Zinc Nitrate, Hexahydrate, Crystalline

PRODUCT NUMBER: Z897

COMPANY INFO: PhytoTech Labs Inc.

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www.phytotechlab.com

1-800-535-5053 - US Only **EMERGENCY PHONE NUMBER** (INFOTRAC): 1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTech Labs Inc. are intended for research and laboratory use only.

RESTRICTIONS ON USE: Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal

products, food additives, in vitro diagnostics, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

GHS Classification:

H272 – Oxidizing solids (Category 3)

H302 - Acute toxicity, Oral (Category 4)

H315 – Skin irritation (Category 2)

H319 – Eye irritation (Category 2A)

H335 – Specific target organ toxicity – single exposure – Respiratory system (Category 3)

GHS Label elements, including hazard and precautionary statements:

Pictogram:



Warning **Precautionary Statements:**

Signal Word:

Hazard Statements:

H272 – May intensify fire; oxidizer. P210 - Keep away from heat H302 – Harmful if swallowed. P261 – Avoid breathing dust

H315 – Causes skin irritation. P280 – Wear protective clothing/protective gloves/eye

H319 – Causes serious eye irritation. protection.

H335 – May cause respiratory irritation. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with

water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

Hazards not otherwise classified (HNOC) or not covered by GHS: - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.: 10196-18-6

Formula: $Zn(NO_3)_2 \cdot 6H_2O$ Molecular Weight: 297.48 g/mol 231-943-8 EC No.:

Ingredient	CAS Number	Percent	Hazardous
Zinc Nitrate, Hexahydrate	10196-18-6	>98 %	No exposure limits established by OSHA or ACGIH

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4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous

area.

First Aid Procedures Route of Entry Symptoms May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything Ingestion by mouth to an unconscious person. Get medical attention. Inhalation May cause irritation to respiratory Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, tract ensure clear airway and give oxygen. Get medical attention. Eye Contact Direct contact may cause irritation. Flush immediately with large amounts of water for at least 15 May cause redness, tearing, or minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation blurred vision. persists. Skin Contact Irritating. May cause reddening, Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation itching or inflammation.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use

extinguishing media suitable for surrounding fire.

persists.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved selfcontained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: May emit toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and

Cleanup:

Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush

spill area with water. Do not let products enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Keep away from sources of ignition. - No smoking. Wash

thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Hygroscopic.

Incompatibilities: Powdered metals, Cyanides, Sodium hypophosphite, Stannous chloride, Thiocyanates,

Strong reducing agents

Recommended Storage Temperature: Room Temperature

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

ACGIH Threshold Limit Values (TLVs): No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Appropriate respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to Off-White Powder

pH: No data available
Solubility: Soluble in Water
Melting Point: 36 °C (97 °F)
Vapor Density: No data available
Vapor Pressure: No data available
Specific Gravity: No data available

Odor: Odorless

Odor Threshold: No data available
Viscosity: No data available
Relative Density: 2.065 g/cm³

Evaporation Rate: No data available
Initial Boiling Point and
No data available

Boiling Range:

Flammability (solid, gas): No data available

Partition coefficient:

n-octanol/water):

No data available

Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Flash Point (Closed Cup): No data available

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use – is an oxidizer

Possibility of Hazard Reactions: Will not occur

Conditions to Avoid: Heat, shock, flame, dust generation, moisture, incompatibles

Incompatibles Materials: Powdered metals, Cyanides, Sodium hypophosphite, Stannous chloride, Thiocyanates,

Strong reducing agents

Hazardous Decomposition Products: Zinc oxides

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11. TOXICOLOGICAL INFORMATION

Toxicity: LD₅₀ (Oral-Rat)(mg/Kg): 1190

 LD_{50} (IP-Mouse)(mg/Kg): 133 LD_{50} (Dermal-Rabbit)(mg/Kg): 926

Carcinogenicity: NTP: No

IARC: No OSHA Reg: No

Reproductive Toxicity: No data available

Specific Target Organ Toxicity: Single Exposure: Inhalation - May cause respiratory irritation.

Repeated Exposure: No data available

Target Organs: Stomach

Routes of Entry: Ingestion and inhalation

NIOSH/RTECS NO: ZH4775000

To the best of our knowledge the toxicological properties of this product have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

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15. REGULATORY INFORMATION

TSCA:

SARA TITLE III:

Section 302 (EHS) Ingredients:

No
Section 313 Ingredients:

No
Section 304 (EHS/CERCLA) Ingredients:

No

Section 311/312 Hazard: Acute Health Hazard, Chronic Health Hazard, Reactivity Hazard

Massachusetts Right to Know Components: This product is not on the Massachusetts Substance List (MSL).

Pennsylvania Right to Know Components: This product is not listed on the Pennsylvania Code's Hazardous Substance

List (Chapter 323).

New Jersey Right to Know Components: This product is not listed amongst the New Jersey Right to Know Hazardous

Substance Fact Sheets

California Prop. 65 Components: This product is not known to the State of California to cause cancer or

reproductive toxicity.

HMIS Rating:

Health	Flammability	Physical Hazard	Personal Protection
3	0	2	В
Health	Fire Hazard	Instability	Special Hazard
3	0	2.	OX

NFPA Rating:

PhytoTech Labs Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. PhytoTech Labs Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

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