

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Nickel Chloride, Hexahydrate

PRODUCT NUMBER: N478

COMPANY INFO: PhytoTech Labs Inc.

14610 W 106th St. Lenexa, KS 66215 Phone: 1-888-749-8682 or 1-913-341-5343

www.phytotechlab.com

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

RECOMMENDED USE: For Laboratory-use or Further Manufacture 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:

H301 – Acute toxicity, Oral (Category 3)

H331 – Acute toxicity, Inhalation (Category 3)

H315 – Skin irritation (Category 2)

H334 - Respiratory sensitization (Category 1)

H350 – Carcinogenicity (Category 1B)

H360 – Reproductive toxicity (Category 1B)

H400 – Acute aquatic toxicity (Category 1)

H410 – Chronic aquatic toxicity (Category 1)

GHS Label elements, including hazard and precautionary statements:

Hazard Statements:

Pictogram:

H301 + H331 - Toxic if swallowed or if inhaled

H315 – Causes skin irritation.

H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341 – Suspected of causing genetic defects.

H350 - May cause cancer.

H360 – May damage fertility or the unborn child.

H410 – Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Signal Word:

P202 – Do not handle until safety precautions have been read and understood.

P261 – Avoid breathing dust.

P273 – Avoid release to the environment.

Danger

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P304 + P340 + P311 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a

POISON CENTER or doctor/ physician

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. COMPOSITION/INFORMATION ON INGREDIENTS

237.7 g/mol

CAS No.: 7791-20-0 Formula: NiCl₂•6H₂O

Molecular Weight:

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Ingredient	CAS Number	Percent	Hazardous
Nickel Chloride, Hexahydrate	7791-20-0	>99 %	OSHA PEL: 1 mg (Ni)/m³; ACGIH TLV: 0.1 mg (Ni)/m³

4. FIRST AID MEASURES

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

area.

Route of Entry Symptoms First Aid Procedures May cause irritation if swallowed Ingestion If swallowed, wash out mouth with water. Never give anything 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 minutes. Eyelids should be held away from the eyeball to May cause redness, tearing, or blurred vision. ensure thorough rinsing. Get medical attention if irritation persists. Skin Contact Irritating. May cause reddening, Wash area thoroughly with soap and water. Remove and wash

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:

itching or inflammation.

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.

contaminated clothing. Get medical attention if irritation

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

Toxic Gases Produced: Hydrogen chloride gas, Nickel/nickel oxides

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. 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.

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Incompatibilities: Strong oxidizing agents, peroxides

Recommended Storage Temperature: Room Temperature

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): 1 mg/m³

ACGIH Threshold Limit Values (TLVs): 0.1 mg/m³

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: Greenish crystalline powder

pH: No data available Solubility: Soluble in Water

Melting Point: >140 °C

Vapor Density: No data available
Vapor Pressure: No data available

Odor: Odorless

Odor Threshold: No data available
Viscosity: No data available
Relative Density: No data available

Evaporation Rate: No data available

Initial Boiling Point and

Boiling Range:

No data available

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

 $Flammable \ Limits: \qquad \qquad Upper\ (\%) - No\ data\ available \qquad \qquad Lower\ (\%) - No\ data\ available$

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: Will not occur

Conditions to Avoid: Moisture

Incompatibles Materials: Strong oxidizing agents, peroxides

Hazardous Decomposition Products: Hydrogen chloride gas, chlorine, nickel oxides

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11. TOXICOLOGICAL INFORMATION

Toxicity: LD₅₀ (Oral-Rat)(mg/Kg): 105

LD₅₀ (IV-Dog)(mg/Kg): 40 LD₅₀ (IP-Mouse)(mg/Kg): 48

Carcinogenicity: Possible human carcinogen

NTP: Known to be human carcinogen (Nickel(II) chloride hexahydrate)

IARC: 1 - Group 1: Carcinogenic to humans (Nickel(II) chloride hexahydrate)

Z List: No OSHA Reg: No

Germ cell mutagenicity: In vitro tests showed mutagenic effects
Reproductive Toxicity: Presumed human reproductive toxicant

Symptoms Associated with

Overexposure:

Irritation, itching, gastrointestinal upset, depression, possible mutagenic and tumorigenic effects, blood effects, hypo- or hyperglycemia, dermatitis, allergic reaction, kidney or liver impairment, changes in sense of smell, effects on reproduction, pulmonary edema, respiratory problems

Specific Target Organ

Toxicity:

Single Exposure: No data available

Repeated Exposure: No data available

Target Organs: Liver, kidney, lungs, endocrine system

Medical Conditions

Aggravated by Exposure:

Pre-existing conditions

Routes of Entry: Ingestion, inhalation, skin and eye contact

NIOSH/RTECS NO: QR6480000

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxicity to daphnia - EC50 - Daphnia magna (Water flea) - 0.51 mg/l - 48 h

Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available

Other Adverse Effects: Very toxic to aquatic life.

13. DISPOSAL CONSIDERATION

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

regulations.

EPA Hazardous Waste Number: No data available

14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: Toxic solid, inorganic, n.o.s. (Nickel(II) chloride hexahydrate)

Hazard Class: 6.1 Packing Group: III

UN: 3288

Poison Inhalation Hazard: No

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International:

IMDG: Proper Shipping Name: Toxic solid, inorganic, n.o.s. (Nickel(II) chloride hexahydrate)

Hazard Class: 6.1 Packing Group: III EMS-No.: F-A, S-A

UN/NA: 3288 Marine pollutant: Yes

IATA: Proper Shipping Name: Toxic solid, inorganic, n.o.s. (Nickel(II) chloride hexahydrate)

Hazard Class: 6.1 Packing Group: III

UN/NA: 3288

15. REGULATORY INFORMATION

TSCA: No

SARA TITLE III:

Section 302 (EHS) Ingredients: No

Section 313 Ingredients: CAS NO.: 7791-20-0 Nickel(II) chloride hexahydrate

Section 304 (EHS/CERCLA) Ingredients: No

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

California Prop. 65 Components: WARNING! Nickel soluble compounds is known to the State of California to

cause cancer or reproductive damage.

16. OTHER INFORMATION

HMIS Rating:

NFPA Rating:

Health Hazard Chronic Health Hazard Flammability Physical Hazard

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Health Hazard Fire Hazard Reactivity Hazard Special Hazard

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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 OR FURTHER MANUFACTURING 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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^{*}Chronic Hazard: Chronic (long-term) health effects may result from repeated overexposure.