



SAFETY DATA SHEET

Section 1. Identification

Product Name:	Nickel(II) nitrate hexahydrate
Product Type:	Solid
CAS Number:	13478-00-7
Product Number:	NI8007
Recommended Use:	Laboratory chemicals, synthesis of substances.
Uses Advised Against:	This product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by Ereztech LLC.
Product Manufacturer:	Ereztech LLC 11555 Medlock Bridge Road, Suite 100 Johns Creek, GA 30097
Product Information:	(888) 658-1221
<u>In Case of an Emergency:</u>	CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International); CCN836180 *** Contact manufacturer for all non-emergency calls.

Section 2. Hazards Identification

Appearance/Odor:	Green to blue crystalline solid, odorless.
Classification:	OXIDIZING SOLIDS – Category 2, H272 ACUTE TOXICITY, ORAL – Category 4, H302 SKIN CORROSION/IRRITATION – Category 2, H315 SENSITIZATION, SKIN – Category 1, H317 SERIOUS EYE DAMAGE/EYE IRRITATION – Category 1, H318 ACUTE TOXICITY, INHALATION – Category 4, H332 SENSITIZATION, RESPIRATORY – Category 1, H334 GERM CELL MUTAGENICITY – Category 2, H341 CARCINOGENICITY – Category 1A, H350 REPRODUCTIVE TOXICITY – Category 1B, H360 SPECIFIC ORGAN TOXICITY, REPEATED EXPOSURE; RESPIRATORY TRACT/LUNGS – Category 1, H372 HAZARDOUS TO THE AQUATIC ENVIRONMENT, CHRONIC TOXICITY – Category 1, H410

Nickel(II) nitrate hexahydrate

Safety Data Sheet

Section 2. Hazards Identification

GHS Label Elements

Hazard Pictograms:



Signal Word:

DANGER

Hazard Statements:

H272: May intensify fire; oxidizer.

H302 + H332: Harmful if swallowed or if inhaled.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

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.

H372: Causes damage to organs (respiratory tract/lungs) through prolonged or repeated exposure.

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

Precautionary Statements

Prevention:

P203: Obtain, read and follow all safety instructions before use.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220: Keep away from clothing and other combustible materials.

P233: Keep container tightly closed.

P260: Do not breathe dusts/aerosols/vapors/gases.

P264 + P265: Wash hands and exposed skin thoroughly after handling. Do not touch eyes.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or with adequate ventilation.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P284: In case of inadequate ventilation, wear respiratory protection.

Nickel(II) nitrate hexahydrate

Safety Data Sheet

Section 2. Hazards Identification

Response:	P301 + P317: IF SWALLOWED: Get medical help. P302 + P352: IF ON SKIN: Wash with plenty of water. P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P354 + P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P317: Get medical help. P318: IF exposed or concerned, get medical advice. P330: Rinse mouth. P332 + P317: If skin irritation occurs: Get medical help. P342 + P316: If experiencing respiratory symptoms: Get emergency medical help immediately. P362 + P364: Take off contaminated clothes and wash it before reuse. P370 + P378: In case of fire: Use extinguishing measures and media that are appropriate to the local circumstances and the surrounding environment. P391: Collect spillage.
Storage:	P403: Store in a well-ventilated place. P405: Store locked up.
Disposal:	P501: Dispose of contents/container in accordance with federal, state and local regulations.
General:	None.
OSHA/HCS Status:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Hazards Not Otherwise Classified (HNOC):	None identified.

Section 3. Composition/Information on Ingredients

Substance Type:	Mono-constituent.
Synonyms:	Nickel(II) nitrate; nickel dinitrate hexahydrate; nickel nitrate hydrate.
Formula:	H ₁₂ N ₂ NiO ₁₂
Molecular Weight:	290.81
EC-No.:	236-068-5

Component Name	%	CAS Number
Nickel(II) nitrate hexahydrate	≥ 99.9	13478-00-7

Nickel(II) nitrate hexahydrate

Safety Data Sheet

Section 3. Composition/Information on Ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First Aid Measures

Description of Necessary First Aid Measures

- General Advice:** Move out of dangerous area. Get medical help. Show this safety data sheet to the doctor in attendance. If unconscious, place in recovery position and get medical help immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Eye Contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses if easy to do. Continue rinsing. Get medical help if irritation develops and persists, if symptoms develop or if you feel unwell.
- Skin Contact:** Take off contaminated clothing and shoes immediately. Wash off contaminated skin with plenty of water. Get medical help.
- Inhalation:** Get medical help. Rescuer should wear a mask or self-contained breathing apparatus if it is suspected that fumes or gases are still present. Remove person to fresh air and keep comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Do not use the mouth-to-mouth method of resuscitation if victim ingested or inhaled the product; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical devices.
- Ingestion:** Get medical help. Rinse mouth, and then give water to drink (two glasses at most). Do NOT induce vomiting. Remove dentures if any. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If person is not breathing, if breathing is irregular or if respiratory arrest occurs, see the "Inhalation" first aid measures noted above.

Most Important Symptoms/Effects, Acute And Delayed Potential Acute Health Effects

- Eye Contact:** Product causes serious eye damage. Symptoms may include watering, redness, pain, swelling of the eyelids, inability to keep eye open, blurred vision and temporary/permanent loss of vision.
- Inhalation:** Product is harmful if inhaled and may also cause allergy or asthma symptoms and breathing difficulties if inhaled. Serious effects on the lungs may include asthma, pneumonia and wheezing. Inhalation may cause an irritation of the respiratory organs of sensitive persons resulting in obstruction of airways.

Nickel(II) nitrate hexahydrate

Safety Data Sheet

Section 4. First Aid Measures

Inhalation: (cont.)	Symptoms may include coughing, sneezing with phlegm production, sore throat, nausea, headache, vomiting.
Skin Contact:	Product is irritating to the skin and may cause an allergic skin reaction. Repeated exposure may cause allergic dermatitis. Symptoms may include an itching or burning sensation, reddening/rash, swelling, trouble breathing, tingling of the hands and feet, dizziness, chest pain and muscle pain.
Ingestion:	Product is harmful if ingested and may be expected to be irritating to the digestive tract. Symptoms may include cramping, localized pain, headache, diarrhea, nausea and vomiting. Absorption of product through the digestive system is poor, but should it occur, symptoms may include giddiness, capillary damage, myocardial weakness, central nervous system depression and kidney and liver damage.
Chronic Symptoms:	Prolonged exposure to high concentrations or repeated exposure may cause damage to kidneys, liver and lungs. Chronic exposure to nickel and nickel compounds is associated with cancer in humans.

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

Notes to Physician:	May cause sensitization in susceptible persons. Persons with pre-existing skin disorders, impaired respiratory or pulmonary functions, or with a history of asthma, allergies or sensitization to nickel compounds may be at an increased risk upon exposure to this product. Treat symptomatically.
----------------------------	--

Specific Treatments: No specific treatment.

Protection of First Responders: No action taken shall be taken involving any personal risk without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See Toxicological Information (Section 11)

Section 5. Fire Fighting Measures

General Hazards:	None identified.
Suitable Extinguishing Media:	Use extinguishing measures and media that are appropriate to the local circumstances and the surrounding environment.
Unsuitable Extinguishing Media:	None identified.
Unusual Fire and Explosion Hazard:	Product is an oxidizer and will increase the flammability of any combustible material. Product may ignite combustible materials (wood, paper, oil, clothing, etc.). Strong oxidants may explode when shocked, or if exposed to heat, flame or friction.

Nickel(II) nitrate hexahydrate

Safety Data Sheet

Section 5. Fire Fighting Measures

Product of Combustion:	Nitrogen oxides (NO _x), nitric acid and potentially toxic nickel oxide fumes. Irritating fumes and organic acid vapors may be generated during exposure to elevated temperatures or open flame.
Protection of Firefighters:	<p>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Avoid contact with skin or eyes. Avoid the formation and inhalation of dusts, aerosols, vapors and gases.</p> <p>Eliminate all local and distant ignition sources. Move containers from fire area if process can be accomplished without risk to firefighters. To reduce the possibility of explosion, use a water spray or fog to reduce direct vapors and to cool unopened containers. Do not cut, grind, drill or weld on or near product containers (even empty) of this product because an explosion may result.</p> <p>Fire-fighters should wear appropriate protection equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode.</p>

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid the formation and inhalation of dusts, aerosols, vapors and gases. Provide adequate ventilation. Wear respiratory protection. Put on appropriate personal protective equipment.
For Emergency Responders:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For Non-Emergency Personnel".
Environmental Precautions:	Do not allow dispersal of spilled material and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Nickel(II) nitrate hexahydrate

Safety Data Sheet

Section 6. Accidental Release Measures

Methods for Containment

- General:** Keep combustible materials (wood, paper, clothing, etc.) away from spilled material. Eliminate all sources of ignition – NO SMOKING. Approach release from upwind. Move containers from spill area if safe to do so. Avoid the formation and inhalation of dusts, aerosols, vapors and gases. Dispose of collected spillage in accordance with federal, state and local regulations. Contaminated absorbent material may pose the same hazard as the spilled product.
- Small Spill:** Collect spillage with a dry, non-combustible, binding material (e.g. dry sand, vermiculite or diatomaceous earth) and place in dry, sealed container for disposal.
- Large Spill:** Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with a dry, non-combustible, binding material (e.g. dry sand, vermiculite or diatomaceous earth) and place in dry, sealed container for disposal.
- Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and Storage

- Precautions:** Keep away from combustible materials (wood, paper, oil, clothing, etc.) and all sources of ignition – NO SMOKING. Avoid formation and inhalation of dusts, aerosols, vapors and gases. Keep container tightly sealed. Avoid contact with skin, eyes and clothing. Do not ingest. Avoid prolonged exposure. Ensure adequate ventilation.
- Protective Measures:** Put on appropriate personal protective equipment (see Section 8). Keep in the original container kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- General Occupational Hygiene:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Nickel(II) nitrate hexahydrate

Safety Data Sheet

Section 7. Handling and Storage

Safe Storage Conditions:

Product is hygroscopic. Store in original container protected from direct sunlight in a dry and well-ventilated area, away from incompatible materials (combustible materials (wood, paper, clothing), strong oxidizing/reduction agents, acids, finely powdered metals) and food and drink. Keep container tightly closed and sealed until ready for use. Store locked up.

Section 8. Exposure Controls/Personal Protection

Introductory Remarks:

These recommendations provide general guidance for handling this product. Because work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and conduct regular repairs. Waste from these procedures should be handled in accordance with Section 13.

Occupational Exposure Limits

Components	CAS-No.	List	Type	Value
Nickel nitrate hexahydrate	13478-00-7	ACGIH	TLV	0.1 mg/m ³ TWA
		NIOSH	REL	0.015 mg/m ³ TWA 10 mg/m ³ IDLH
		OSHA	PEL	0.1 mg/m ³ TWA (vacated)

Engineering Controls:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Provide an eyewash/shower station.

Environmental Exposure Controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual Protection Measures

Hygiene Measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Remove all soiled and contaminated clothing immediately. Do not inhale sprays, mists, vapors or gases. Avoid contact with eyes and skin. Ensure that eyewash stations and safety showers are close to the workstation location.

Nickel(II) nitrate hexahydrate

Safety Data Sheet

Section 8. Exposure Controls/Personal Protection

Eye/Face Protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles, faceshield (8-inch minimum). Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

Skin Protection

Hand Protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical-resistant gloves.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. For full contact, wear Neoprene or nitrile rubber gloves.

Other Skin Protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Nickel(II) nitrate hexahydrate

Safety Data Sheet

Section 9. Physical and Chemical Properties

Physical State:	Solid (crystals).
Color:	Green to blue.
Odor:	Odorless.
Odor Threshold:	No data available.
pH:	5 @ 50g/L (20 °C).
Melting Point:	56.7 °C (134.1 °F).
Boiling Point:	136.7 °C (278.1 °F).
Flash Point:	No data available.
Auto-ignition temperature:	No data available.
Density:	2.05 g/mL @ 25 °C (77 °F) – lit.
Vapor Pressure:	No data available.
Vapor Density:	No data available.
Water Solubility:	238.5 g/100 mL (20 °C).

Section 10. Stability and Reactivity

Reactivity:	Oxidizer.
Chemical Stability:	Product is stable at normal ambient temperature and pressure and under recommended storage conditions. Product is an oxidizer: contact with combustible/organic materials may cause fire or explosion.
Conditions to Avoid:	Exposure to excess heat, sources of ignition and incompatible materials.
Incompatible Materials:	Combustible materials, organic materials, hydrocarbons, strong acids, strong bases, strong oxidizing agents.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products formed under fire conditions: nitric acid, nitrogen oxides (NO _x), irritating fumes and potentially toxic nickel oxide fumes. In the event of a fire: see Section 5.
Possibility of Hazardous Reactions:	Under normal conditions of storage and use, hazardous reactions will not occur. Hazardous reactions or instability may occur under certain conditions of storage or use.

Nickel(II) nitrate hexahydrate

Safety Data Sheet

Section 11. Toxicological Information

Information on Toxicological Effects

Acute Toxicity: Harmful if swallowed or inhaled.

Component	CAS No	Result	Species	Dose	Exposure
Nickel(II) nitrate hexahydrate	13478-00-7	LD50 Oral	Rat	361.9 mg/kg	-

Irritation/Corrosion: Causes skin irritation and serious eye damage. Repeated or prolonged skin contact may cause allergic reactions in susceptible persons.

Sensitization: May cause sensitization by skin contact.

Germ Cell Mutagenicity: Contains a suspected or known mutagen; suspected of causing genetic defects.

Carcinogenicity

ACGIH: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

IARC: Group 1 (Carcinogenic to humans).

NTP: Known to be a human carcinogen.

OSHA: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive Toxicity: May cause harm to the unborn child.

Teratogenicity: No specific data available.

Specific Target Organ Toxicity: (Single Exposure) No specific data available.

Specific Target Organ Toxicity: (Repeated Exposure) May cause damage to organs through prolonged or repeated exposure (skin, lungs, nasal cavities).

Aspiration Hazard: No specific data available.

Information on the Likely Routes of Exposure Common routes of exposure: inhalation (failure to prevent dust formation), dermal (failure to use skin protection), eye (failure to use safety eyewear). Less common: ingestion (failure to employ recommended hygiene measures (e.g. smoking after handling product without washing hands or using hand protection)).

Additional Information: To the best of our knowledge, the chemical, physical and toxicological properties of this product have not been thoroughly investigated.

Nickel(II) nitrate hexahydrate Safety Data Sheet

Section 12. Ecological Information

Ecotoxicity

Aquatic Toxicity (Acute)

Component	CAS No	Test	Species	Dose	Exposure
Nickel(II) nitrate hexahydrate	13478-00-7	LC50	Fish	15.3 mg/l	96 h
		EC50	Aquatic invertebrates	0.406 mg/l	24 h
		ErC50	Algae	≤ 1.12 µg/l	72 h

Aquatic Toxicity (Chronic)

Component	CAS No	Test	Species	Dose	Exposure
Nickel(II) nitrate hexahydrate	13478-00-7	ErC50	Fish	8.363 µg/l	40 d
		EC50	Aquatic invertebrates	≤ 108 µg/l	21 d
		NOEC	Fish	57 µg/l	32 d
		LOEC	Fish	120 µg/l	32 d

Persistence and Degradability

Biodegradability:

No specific data available.

Bioaccumulative Potential:

Does not significantly accumulate in organisms (BCF – 45)

Mobility in Soil:

Product is likely to be mobile in the environment due to its water solubility.

Results of PBT and vPvB Assessment:

Product is not a PBT or a vPvB.

Endocrine Disrupting Properties:

Product does not contain an endocrine disruptor (ED) at a concentration of ≥ 0.1%.

Other Adverse Effects:

Product is very toxic to aquatic life with long lasting effects.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13. Disposal Considerations

Waste Treatment Methods

Product:

Dispose of in accordance with local, state, and federal regulations. Refer to 40 CFR 260-299 for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals.

Nickel(II) nitrate hexahydrate

Safety Data Sheet

Section 13. Disposal Considerations

Contaminated Packaging: Empty containers retain product residue (dusts and/or aerosols) and can be dangerous. Dispose of as unused product. DO NOT EXPOSE OPENED/EMPTY CONTAINERS TO COMBUSTIBLE MATERIALS, EXCESS HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Section 14. Transport Information

	DOT	IMDG	IATA
UN Number	UN2725	UN2725	UN2725
UN Proper Shipping Name	Nickel nitrate	NICKEL NITRATE	Nickel nitrate
Transport Hazard Classes	5.1	5.1	5.1
Packing Group	III	III	III
Environmental Hazards	-	Yes	-
Additional Information		EMS-No: F-A, S-Q	

Special Precautions for User: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory Information

TSCA (Toxic Substance Control Act):

This product is not listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory). Use of this product is restricted to research and development only. This product must be used under the supervision of a technically qualified individual as defined by the TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.

SARA 302 Components

This product does not contain any components which are subject to the reporting requirements of SARA Title III, Section 302 EHS TPO.

SARA 304 Components

This product does not contain any components which are subject to the reporting requirements of SARA Title III, Section 304 RQ.

SARA 311/312 Hazards

Reactivity Hazard (Oxidizer (solid)); Acute Health Hazard (Acute toxicity – ingestion/inhalation; Skin corrosion or irritation; Serious eye damage or eye irritation; Respiratory Sensitization; Specific Target Organ Toxicity (STOT), Repeated Exposure: organ damage); Chronic Health Hazard (Carcinogenicity, Germ Cell Mutagenicity, Reproductive Toxicity); HNOC (Allergic Reaction).

Nickel(II) nitrate hexahydrate Safety Data Sheet

Section 15. Regulatory Information

SARA 313 Components

Component	CAS No.	Weight (%)	SARA 313 Threshold Values by Weight (%)	SARA 313 Reporting Thresholds
Nickel(II) nitrate hexahydrate	13478-00-7	> 90	0.1	-

Clean Water Act

Component	CWA – Hazardous Substances	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants
Nickel(II) nitrate hexahydrate	-	-	X	-

"X" – Listed.

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Nickel(II) nitrate hexahydrate	X	-	-

"X" – Listed.

CERCLA Reportable Quantity

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Right-to-Know Listings

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Nickel(II) nitrate hexahydrate	X	X	X	X	X

"X" – Listed.

US State Chemicals of High Concern Listings

Component	Maine	Vermont	Washington
Nickel(II) nitrate hexahydrate	-	-	-

"X" – Listed.

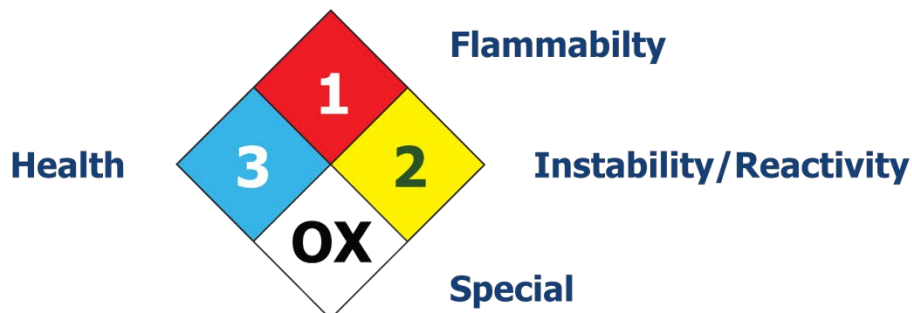
California Proposition 65 Components

Component	CAS No.	California Prop. 65	Prop. 65 NSRL	Category
Nickel(II) nitrate hexahydrate	110-54-3	Carcinogen Developmental Male Reproductive	-	Developmental Carcinogen

Nickel(II) nitrate hexahydrate Safety Data Sheet

Section 16. Other Information

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

HMIS Rating

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	2

History

Date of Issue/Date of Revision : 1/22/2025.

Date of Previous Issue : 2/28/2022.

References : None available.

Abbreviations and Acronyms

- ACGIH : American Conference of Governmental Industrial Hygienists.
- AIHA : American Industrial Hygiene Association.
- ATE : Acute Toxicity Estimate (per Chapter 3.1 of GHS 10 standard).
- BEI : Biological Exposure Indices (ACGIH).
- CAS : Chemical Abstracts Service (division of the American Chemical Society).
- CHRIS : Chemical Hazards Response Information System (US DOT).
- CLP : Classification, Labeling and Packaging (European Union (EU)).
- DOT : US Department of Transportation.

Nickel(II) nitrate hexahydrate

Safety Data Sheet

Section 16. Other Information

Abbreviations and Acronyms (cont.)

EC-No.	: The EC Inventory (EINECS, ELINCS and the NLP-list is the source of the seven digit EC number, an identifier of substances commercially available with the EU (European Union).
EINECS	: European Inventory of Existing Commercial Chemical Substances.
EHS	: Extremely Hazardous Substance.
ELINCS	: European List of Notified Chemical Substances.
GHS	: Globally Harmonized System of Classification and Labeling of Chemicals.
HAP	: Hazardous Air Pollutants (Clean Air Act).
HMIS	: Hazardous Materials Identification System.
HNOC	: Hazards Not Otherwise Classified.
IARC	: International Agency for Research on Cancer.
IATA	: International Air Transport Association.
IATA-DGR	: Dangerous Goods Regulations by the "International Air Transport Association" (IATA).
IDLH	: Immediately Dangerous to Life or Health (US National Institute for Occupation Health and Safety (NIOSH)).
IMDG	: International Maritime Code for Dangerous Goods.
IP	: Intraperitoneal.
IV	: Intravenous.
NFPA	: National Fire Protection Association.
NIOSH	: National Institute of Occupational Safety and Health.
NSRL	: No Significant Risk Levels.
NTP	: National Toxicology Program.
ODS	: Ozone Depleting Substances (US Clean Air Act).
OECD	: Organization for Economic Co-Operation and Development.
OEL	: Occupational Exposure Limit.
OSHA	: Occupational Safety and Health Administration.
PBT	: Persistent Bioaccumulative and Toxic.
PEL	: Permissible Exposure Limits.
REL	: Recommended Exposure Limits.
RQ	: Reportable Quantity.
SARA	: Superfund Amendments and Reauthorization Act.
STEL (ST)	: Short Term Exposure Limit (ACGIH/NIOSH)
STOT	: Specific Target Organ Toxicity.
TLV	: Threshold Limit Values (ACGIH).
TPQ	: Threshold Planning Quantity.
TWA	: Time Weighted Average.
VOC	: Volatile Organic Compound.
vPvB	: Very Persistent and Very Bioaccumulative.
WEEL	: Workplace Environmental Exposure Level (AIHA).

Nickel(II) nitrate hexahydrate

Safety Data Sheet

Section 16. Other Information

Disclaimer

The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Ereztech LLC regarding the accuracy or completeness of the information. Ereztech LLC shall not be liable for any damages resulting from the handling, or from the contact with the above product.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

