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# SAFETY DATA SHEET

### Section 1. Identification

Product Name: Nickel(II) nitrate hexahydrate

Product Type: Solid

CAS Number: 13478-00-7
Product Number: NI8007

**Product Manufacturer:** Ereztech LLC

11555 Medlock Bridge Road, Suite 100

Johns Creek, GA 30097

**Product Information:** (888) 658-1221

In Case of an Emergency: 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 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 - Category 1,

H372

HAZARDOUS TO THE AQUATIC ENVIRONMENT, ACUTE TOXICITY

Category 1, H400

HAZARDOUS TO THE AQUATIC ENVIRONMENT, CHRONIC

TOXICITY - Category 1, H410

### Section 2. Hazards Identification

## **GHS Label Elements**













**Signal Word: Hazard Statements:**  **DANGER** 

H272: May intensify fire; oxidizer.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H332: Harmful if inhaled.

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 through prolonged or repeated

exposure.

H400: Very toxic to aquatic life.

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

**Precautionary Statements** Prevention:

P201: Obtain special instructions before use.

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

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking.

P220: Keep/Store away from clothing/wood/paper/combustible materials.

P221: Take any precaution to avoid mixing with combustibles.

P260: Do not breathe dusts/aerosols/gases.

P264: Wash exposed skin thoroughly after handling.

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

P271: Use only outdoors or in a well ventilated area.

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.

### Section 2. Hazards Identification

**Prevention (cont.):** P281: Use personal protective equipment as required.

P285: In case of inadequate ventilation, wear respiratory

protection.

Response: P301 + P312: IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at

rest in a position comfortable for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P308 + P313: If exposed or concerned, get medical

advice/attention.

P310: Immediately call a POISON CENTER or doctor/physician.

P330: Rinse mouth.

P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.

P342 + P311: If experiencing respiratory symptoms: Call a

POISON CENTER or doctor/physician.

P362: Take off contaminated clothes and wash before reuse.

P370 + P378: In case of fire: Use water in flooding quantities.

P391: Collect spillage.

P405: Store locked up.

P501: Dispose of contents/ container to an approved wasted

disposal plant.

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

**Substances** 

Storage:

Disposal:

Synonyms : Nickel(II) nitrate; nickel dinitrate hexahydrate; nickel nitrate

hydrate.

Formula :  $H_{12}N_2NiO_{12}$ Molecular Weight : 290.81 CAS-No. : 13478-00-7

 Ingredient Name
 %
 CAS Number

 Nickel(II) nitrate hexahydrate
 ≥ 99.995
 13478-00-7

### 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. Call a POISON CENTER or doctor/physician

immediately. Show this safety data sheet to the doctor in attendance.

**Eye Contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower eyelids. Check for and remove any contact lenses. Continue rinsing. Call

a POISON CENTER or doctor/physician immediately.

Skin Contact: Take off contaminated clothing and shoes immediately. Wash off contaminated

skin with soap and plenty of water. Call a POISON CENTER or doctor/physician

immediately.

Inhalation: Remove victim to fresh air and keep at rest in a position 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. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or

waistband. Call a POISON CENTER or doctor/physician immediately.

**Ingestion:** Rinse mouth. 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 unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Call a

POISON CENTER or doctor/physician immediately.

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

**Eye Contact:** Causes serious eye damage. Symptoms may include watering, redness, pain,

swelling of the eyelids, inability to keep eye open, blurred vison 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.

Symptoms may include coughing, sneezing with phlegm production, sore throat,

nausea, headache, vomiting.

### Section 4. First Aid Measures

**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.

Product is harmful if ingested and may be expected to be irritating to the Ingestion:

> 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.

Prolonged exposure to high concentrations or repeated exposure may cause **Chronic Symptoms:** 

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.

No action taken shall be taken involving any personal risk **Protection of First Responders:** 

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 water spray in flooding quantities.

Dry chemicals, carbon dioxide. **Unsuitable Extinguishing Media:** 

Hazard:

Product is an oxidizer and will increase the flammability of any **Unusual Fire and Explosion** 

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.

**Product of Combustion:** Nitrogen oxides (NO<sub>x</sub>), 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.

### Section 5. Fire Fighting Measures

#### **Protection of Firefighters:**

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.

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.

Fire-fighters should wear appropriate protection equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode.

### 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 and aerosols. 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).

**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. Prevent entry into sewers, water courses, basements or confined areas.

### Section 6. Accidental Release Measures

**General (cont.):** Avoid the formation and inhalation of dusts and aerosols.

Contaminated absorbent material may pose the same hazard

as the spilled product.

Small/Large Spills: Contain and collect spillage with a noncombustible, binding

material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in dry, sealed container for disposal according to local regulations (see Section 13). Dispose of via a licensed

waste disposal contractor.

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

Keep away from combustible materials (wood, paper, oil, clothing, etc.) and all sources of ignition – NO SMOKING. Avoid formation and inhalation of dusts and aerosols. 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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dusts/aerosols/vapors/gases. 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.

Safe Storage Conditions: Product is hygroscopic. Store in original container protected

from direct sunlight in a dry and well-ventilated area, away from combustible materials (wood, paper, clothing, etc.) 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:**

List	Components	CAS-No.	Туре	Value
ACGIH	Nickel nitrate hexahydrate	13478-00-7	TLV	0.1 mg/m <sup>3</sup> (TWA)
NIOSH	Nickel nitrate hexahydrate	13478-00-7	IDLH	10 mg/m <sup>3</sup>
			TWA	0.015 mg/m <sup>3</sup>
OSHA	Nickel nitrate hexahydrate	13478-00-7	OEL	1 mg/m <sup>3</sup> (TWA)

**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 dusts/aerosols/gases/vapors. Avoid contact with eyes and skin. Ensure that eyewash stations and safety showers are close to the workstation location.

**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.

### Section 8. Exposure Controls/Personal Protection

**Skin Protection** 

**Hand Protection:** 

Other Skin Protection:

**Respiratory 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: Chemicalresistant 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.

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.

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).

#### Physical and Chemical Properties Section 9.

**Physical State:** Solid (crystals). Dark green. Color:

No data available. Odor: No data available. **Odor Threshold:** 5 50g/L (20 °C). pH:

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### Section 9. Physical and Chemical Properties

56 °C (133 °F). **Melting Point:** 137 °C (278.6 °F). **Boiling Point:** No data available. Flash Point: No data available. **Auto-ignition temperature:** 

2.05 **Relative Density:** 

**Vapor Pressure:** No data available. Vapor Density: No data available.

238.5 g/100 mL (20 °C). Water Solubility:

### Section 10. Stability and Reactivity

Reactivity: Oxidizer.

Stable at normal ambient temperature and pressure and **Chemical Stability:** 

under recommended storage conditions. Product is an oxidizer: contact with combustible/organic materials may

cause fire or explosion.

Exposure to excess heat, sources of ignition and **Conditions to Avoid:** 

incompatible materials.

**Incompatible Materials:** Combustible materials, organic materials, hydrocarbons,

strong acids, strong bases, strong oxidizing agents.

Under normal conditions of storage and use, hazardous **Hazardous Decomposition Products:** 

> decomposition products should not be produced. Hazardous decomposition products formed under fire conditions: nitric acid, nitrogen oxides (NO<sub>X</sub>), irritating fumes and potentially toxic nickel oxide fumes. In the

event of a fire: see section 5.

Under normal conditions of storage and use, hazardous **Possibility of Hazardous Reactions:** 

reactions will not occur. Hazardous reactions or instability may occur under certain conditions of storage or use.

### Section 11. Toxicological Information

#### Information on Toxicological Effects

Component	CAS No	Result	Species	Dose	Exposure
Nickel(II) nitrate hexahydrate	13478-00-7	LD50 Oral	Rat	1620 mg/kg	-

: Harmful if swallowed or inhaled. **Acute Toxicity** 

### Section 11. Toxicological Information

Irritation/Corrosion

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

Sensitization

**Germ Cell Mutagenicity** 

: May cause sensitization by skin contact.

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

**Carcinogenity** 

**IARC** 

: Nickel(II) nitrate hexahydrate. Group 1: Carcinogenic to humans.

**ACGIH** 

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

**NTP** 

**OSHA** 

: Known to be a human carcinogen.

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

: Suspected of damaging the unborn child.

**Reproductive Toxicity** 

**Teratogenicity** 

**Specific Target Organ Toxicity** (Single Exposure)

**Specific Target Organ Toxicity** 

(Repeated Exposure)

**Aspiration Hazard** 

Information on the Likely **Routes of Exposure** 

: No specific data available. : No specific data available.

: May cause damage to organs through prolonged or repeated exposure (skin, lungs, nasal cavities).

: No specific data available.

: 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.

### Section 12. Ecological Information

**Numerical Measures of Toxicity** 

**Toxicity to Fish** 

**Toxicity to Daphnia and Other Aquatic Invertebrates** 

: No specific data available.

: No specific data available.

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## Section 12. Ecological Information

Toxicity to Algae

: No specific data available.

**Persistence and Degradability** 

**Biodegradability** 

**Bioaccumulative Potential** 

**Mobility in Soil** 

**Other Adverse Effects** 

: No specific data available.

No specific data available.

: Product is likely to be mobile in the environment due to

its water solubility.

: 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.

**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	UN 2725	Un 2725	UN 2725	
UN Proper Shipping Name	Nickel nitrate	NICKEL NITRATE	Nickel nitrate	
Transport Hazard Classes	5.1	5.1	5.1	
Packing Group				
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 14. Transport Information

Transporting in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

### 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**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

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).

#### Massachusetts Right to Know Components

No components are subject to Massachusetts Right to Know Act.

#### Pennsylvania Right to Know Components

CAS-No. **Revision Date** Nickel(II) nitrate hexahydrate 13478-00-7

**New Jersey Right to Know Components** 

CAS-No. **Revision Date** Nickel(II) nitrate hexahydrate 13478-00-7

#### **California Proposition 65 Components**

This product contains a chemical known to State of California to cause cancer.

CAS-No. **Revision Date** 13478-00-7 Nickel(II) nitrate hexahydrate

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### Section 16. Other Information

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



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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**



#### **History**

Date of Issue/Date of Revision : 2/28/2022

Date of Previous Issue : None.

References : None available.

#### **Abbreviations and Acronyms**

ACGIH: American Conference of Governmental Industrial Hygienists.

ATE: Acute Toxicity Estimate

CAS: Chemical Abstracts Service (division of the American Chemical Society).

DOT: US Department of Transportation.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

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).

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### Section 16. Other Information

#### Abbreviations and Acronyms (cont.)

IDLH: Immediately Dangerous to Life or Health (US National Institute for Occupation Health and Safety (NIOSH)).

IMDG: International Maritime Code for Dangerous Goods.

NFPA: National Fire Protection Association.

NIOSH: National Institute of Occupational Safety and Health.

NTP: National Toxicology Program.

OSHA: Occupational Safety and Health Administration.

PEL: Permissible Exposure Limits. REL: Recommended Exposure Limits.

SARA: Superfund Amendments and Reauthorization Act.

STOT: Specific Target Organ Toxicity. TLV: Threshold Limit Values (ACGIH).

TWA: Time Weighted Average. VOC: Volatile Organic Compound.

#### **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.

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