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## CERTIFICATE OF ANALYSIS

### Nickel Carbonate Powder, High - Purity

Date: July 10, 2019

Product: Nickel Carbonate High Purity

Code: NCBPHP50

Quantity: 2 x 50 lb boxes 100.00 lb.

Lot #: 718048

Consignee: Standard Ceramic Supply Co.  
24 Chestnut St.  
Carnegie, PA 15106 United States  
412-276-6333

PO #: SK0709A

Lot #718048					
		Result %			Result %
Nickel	Ni	49.69	Lead	Pb	<0.0001
Chloride	Cl	0.0071	Magnesium	Mg	0.0029
Calcium	Ca	0.0042	Manganese	Mn	<0.0001
Chromium	Cr	<0.0003	Sodium	Na	0.0075
Cobalt	Co	0.0003	Sulfate	SO <sub>4</sub>	0.0416
Copper	Cu	<0.0001	Zinc	Zn	<0.0001
Iron	Fe	0.0005			

Certified true and correct:  
Michael F. Aragon



# SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Directives

## 1. PRODUCT IDENTIFICATION

**TRADE NAME (AS LABELED):** Nickel Carbonate Powder or Paste  
**SYNONYMS:** Nickel Hydrocarbonate, Nickel (II) Carbonate; Carbonic Acid, Nickel Salt  
**CAS#:** 3333-67-3  
**PRODUCT USE:** Various uses  
**CHEMICAL SHIPPING NAME/CLASS:** Nickel Carbonate Powder / Paste **Non-Regulated**  
**U.N. NUMBER:** None  
**MANUFACTURER'S NAME:** Various Manufacturers  
**DISTRIBUTOR'S NAME:** **Hunter Chemical LLC**  
**ADDRESS:** 220 Commerce Drive, Suite 405, Fort Washington, PA 19034  
**EMERGENCY PHONE:** (800) 424-9300 (CHEMTREC)  
**BUSINESS PHONE:** (215) 461-1900  
**DATE OF PREPARATION:** February 15, 2011  
**DATE OF REVISION:** December 14, 2017  
**DATE OF REVIEW:** December 14, 2017

## 2. HAZARD IDENTIFICATION

### EMERGENCY OVERVIEW:

**Product Description:** This product is a light green powder or paste with no odor.  
**Health Hazards:** Harmful if swallowed or inhaled. Causes irritation to skin, eyes and respiratory tract. May cause allergic skin or respiratory reaction. Potential cancer hazard  
**Flammability Hazards:** Contact with strong oxidizers may cause fire.  
**Reactivity Hazards:** This product is not reactive.  
**Environmental Hazards:** Release of the product may cause adverse effects to the aquatic environment.  
**Emergency Recommendations:** Emergency responders must have personal protective equipment and fire protection appropriate for the situation to which they are responding.

**EU LABELING AND CLASSIFICATION:** This product meets the definition of a hazardous substance or preparation according to EU Regulations (EC) No 1272/2008.

Index#: 028-010-00-0

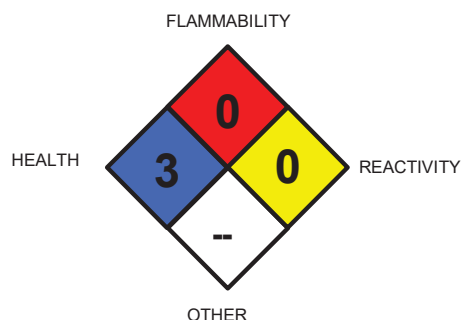
### COMPONENT(S) DETERMINING HAZARD:

Nickel Carbonate Powder, Nickel Carbonate Paste

### GHS CLASSIFICATIONS:

- Acute Oral Toxicity Category 4
- Acute Inhalation Toxicity Category 4
- Skin Irritation Category 2
- Resp. Sensitizer Category 1
- Skin Sensitization Category 1
- Germ Cell Mutagenicity Cat 2
- Carcinogenicity Category 1
- Reproductive Toxicity Category 1
- Specific Target Organ Toxicity – Repeated Exposure Category 1
- Aquatic Acute Category 1
- Aquatic Chronic Category 1

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)		3	
FLAMMABILITY HAZARD (RED)		0	
REACTIVITY (YELLOW)		0	
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	SEE SECTION 8		SEE SECTION 8
For Routine Industrial Use and Handling Applications			



Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

### SIGNAL WORD: DANGER





# SAFETY DATA SHEET

## HAZARD STATEMENT:

H302	Harmful if swallowed
H332	Harmful if inhaled
H315	Causes skin irritation
H334	May cause allergy or breathing difficulties if inhaled
H317	May cause an allergic skin reaction
H341	Suspected of causing genetic defects
H350	May cause cancer
H361	Suspected of damaging 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

## PREVENTION STATEMENT:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapor/spray.
P264	Wash hands 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.
P284	[In case of inadequate ventilation] wear respiratory protection.

## RESPONSE STATEMENT:

P310	Immediately call a POISON CENTER/doctor if you feel unwell.
P363	Wash contaminated clothing before reuse
P301+P312:	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330:	Rinse mouth.
P302+P352:	IF ON SKIN: Wash with plenty of water.
P305+P351+P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P321	Specific Treatment (See Section 4 of this SDS).
P308 + P313	IF exposed or concerned: Get medical advice/attention
P333 + P313	IF skin irritation or rash occurs: Get medical advice/attention
P391	Collect spillage.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P362+P364	Take off immediately all contaminated clothing and wash it before reuse.
P314	Get medical advice/attention if you feel unwell.

## STORAGE STATEMENT:

P405	Store locked up.
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## DISPOSAL STATEMENT:

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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## HEALTH EFFECTS OR RISKS FROM EXPOSURE:

**ACUTE:** Inhalation: Can cause headaches, dizziness, and difficult breathing. Finer dust particulates may irritate the respiratory tract. Symptoms may include coughing, sore throat, and shortness of breath. Inhalation of nickel and nickel compounds is associated with nasal and lung damage and cancer.

Ingestion: May cause irritation to the gastro-intestinal tract. Large oral dose may cause nausea, vomiting, abdominal pain and diarrhea. Skin Contact: Causes irritation, redness, pain. May cause allergic dermatitis. Nickel is a contact allergen and sensitizer. Eye Contact: Causes irritation, redness, and pain.

**CHRONIC:** Prolonged exposure to excessive concentrations of dust may cause chronic pulmonary disorders. Nickel and certain nickel compounds are considered carcinogenic and noted for producing nasal and lung cancer.



# SAFETY DATA SHEET

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS#	EINECS #	Hazard Classification
Nickel Carbonate Powder	>99%	3333-67-3	222-068-2	Acute Tox Cat 4 (Oral, Inhalation), Skin Irrit Cat 2, Resp Sens Cat 1, Skin Sens Cat 1, Muta Cat 2, Carc Cat 1, Repr Cat 1, STOT RE Cat 1, Aquatic Acute / Chronic Cat 1
Nickel Carbonate Paste	>66%	3333-67-3	222-068-2	Acute Tox Cat 4 (Oral, Inhalation), Skin Irrit Cat 2, Resp Sens Cat 1, Skin Sens Cat 1, Muta Cat 2, Carc Cat 1, Repr Cat 1, STOT RE Cat 1, Aquatic Acute / Chronic Cat 1

Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

## 4. FIRST-AID MEASURES

**SKIN EXPOSURE:** If this product contaminates the skin, begin decontamination with running water. Minimum flushing is for 5 minutes. Remove exposed or contaminated clothing, taking care not to contaminate eyes. The contaminated individual should seek medical attention if any adverse effect occurs.

**EYE EXPOSURE:** If this product enters the eyes, open contaminated individual's eyes while under gently running water. Use sufficient force to open eyelids. Remove contact lenses if worn. Have contaminated individual "roll" eyes. Minimum flushing is for 15 minutes. Contaminated individual must seek immediate medical attention.

**INHALATION:** If dusts generated by this product are inhaled, remove contaminated individual to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing distress continues.

**INGESTION:** Routine use of this product is not expected to cause any situation which could lead to ingestion. If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION.

If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Persons with pre-existing skin disorders or eye problems, or respiratory function may be more susceptible to the effects of the substance. Persons with allergies or sensitivity to nickel may also be more susceptible to the effects of the substance.

**RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms and eliminate overexposure.

## 5. FIRE-FIGHTING MEASURES

**FLASH POINT:** Non-Flammable

**AUTOIGNITION TEMPERATURE:** Not Applicable

**FLAMMABLE LIMITS (in air by volume, %):** Lower NA Upper NA

**FIRE EXTINGUISHING MATERIALS:** Use fire extinguishing methods below:

Water Spray: Yes

Carbon Dioxide: Yes

Foam: Yes

Dry Chemical: Yes

Halon: Yes

Other: Any "C" Class

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Not considered a fire or explosion hazard.

Explosion Sensitivity to Mechanical Impact: No

Explosion Sensitivity to Static Discharge: No

**SPECIAL FIRE-FIGHTING PROCEDURES:** Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

## 6. ACCIDENTAL RELEASE MEASURES

**SPILL AND LEAK RESPONSE:** Proper protective equipment should be used. Stop the flow of material, if this can be done safely. Contain discharged material. For spills of solid material, sweep-up or vacuum spilled solid, minimizing the generation of dust. Place in a proper container for reclamation or disposal. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).



# SAFETY DATA SHEET

## 7. HANDLING and STORAGE

**WORK PRACTICES AND HYGIENE PRACTICES:** As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing dusts generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

**STORAGE AND HANDLING PRACTICES:** Containers of this product must be properly labeled. Empty containers should be handled with care. Store containers in a cool, dry location. Keep container tightly closed when not in use.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Nickel compounds	NA	0.1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use a chemical fume hood or local exhaust ventilation, and process enclosure if necessary, to control airborne dust. Ensure eyewash/safety shower stations are available near areas where this product is used.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.*

**RESPIRATORY PROTECTION:** Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

**EYE PROTECTION:** Safety glasses or goggles are recommended. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

**HAND PROTECTION:** Use chemically-resistant gloves when handling this product. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

**BODY PROTECTION:** Use body protection appropriate for task (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

## 9. PHYSICAL and CHEMICAL PROPERTIES

**APPEARANCE and COLOR:** Light green powder or paste

**ODOR:** No odor

**ODOR THRESHOLD:** Odorless

**pH:** No Data

**MELTING/FREEZING POINT:** Decomposes before reaching melting point.

**BOILING POINT:** No Data

**FLASH POINT:** Not Applicable

**EVAPORATION RATE (n-BuAc=1):** No Data

**FLAMMABILITY (SOLID, GAS):** Not Available

**UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS:** Not Available

**VAPOR PRESSURE, mm Hg @ 20°C (68°F):** No Data

**VAPOR DENSITY:** No Data

**RELATIVE DENSITY:** No Data

**SPECIFIC GRAVITY:** 1.3-1.4(water =1)

**SOLUBILITY IN WATER:** Negligible

**PARTITION COEFFICIENT (n-octanol/water):** Not Available

**AUTO-IGNITION TEMPERATURE:** Not Applicable

**DECOMPOSITION TEMPERATURE:** Not Available

**VISCOSITY:** Not Applicable