



Safety Data Sheet

In accordance with CFR 1910.1200 (OSHA HCS)

SDS No. 1540

Date of review: June 9, 2015

1 Identification of substance and company

Product name: Nickel (II) carbonate
Product code: 11570
Relevant use and restrictions on use: Research and product development
Manufacturer/Supplier: Noah Technologies Corporation
1 Noah Park
San Antonio, Texas 78249-3419
Phone: 210-691-2000
Fax: 210-691-2600
Web site: www.noahtech.com
Emergency information: CHEMTREC
800-424-9300

2 Hazards identification

Emergency Overview:



Signal word(s): Danger
Pictogram(s): Health hazard
Exclamation mark
Environment
Hazard statements: H302+H332 Harmful if swallowed or if inhaled
H315 Causes skin irritation
H317 May cause an allergic skin reaction
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 if inhaled
H410 Very toxic to aquatic life with long lasting effects
Precautionary statements: P260 Do not breathe dust or mist
P264 Wash skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection
P301+312+330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P302+352 IF ON SKIN: Wash with plenty of soap and water
P304+340+312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P308+313 IF exposed or concerned: Get medical advice/attention
P333+313 If skin irritation or rash occurs: Get medical advice/attention
Hazards not otherwise classified: None
Ingredients of unknown acute toxicity: None
GHS Classification: Acute toxicity, Oral - 4
Acute toxicity, Inhalation - 4
Skin irritation - 2
Respiratory sensitization - 1
Skin sensitization - 1
Carcinogenicity - 1A
Reproductive toxicity - 1B
Specific target organ toxicity - repeated exposure, Inhalation - 1
Acute aquatic toxicity - 1
Chronic aquatic toxicity - 1
HMIS ratings (scale 0-4): Health hazard: 2*
Flammability: 0
Physical hazard: 0

3 Composition/Information on ingredients

Chemical name:	Nickel (II) carbonate
Designation:	
CAS number:	3333-67-3
Formula:	NiCO ₃
Synonyms:	Nickelous carbonate
Ingredients of known acute toxicity:	Nickel (II) sulfate, hexahydrate

4 First aid measures

After inhalation:	Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
After eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
After ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Information for doctor:	Show this safety data sheet to the doctor in attendance
Symptoms/effects; acute and delayed:	Ingestion of large amounts has been shown to cause intestinal disorders, convulsions, and asphyxia. The most common effect resulting from exposure to nickel compounds is the development of "nickel itch". It occurs primarily under conditions of high temperature and humidity.
Immediate medical attention and special treatment needed:	See above

5 Fire-fighting measures

Suitable and unsuitable extinguishing agents:	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Special hazards caused by the material, its products of combustion or resulting gases:	Oxides of nickel, carbon monoxide and dioxide
Special fire fighting procedures:	Wear self-contained breathing apparatus and fully protective fire fighting equipment/clothing
Unusual fire and explosion hazard:	No available data

6 Accidental release measures

Person-related safety precautions:	Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
Measures for environmental protection:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Measures for cleaning/collecting:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for proper disposal.
Additional information:	See Section 7 for information on safe handling See Section 8 for information on personal protective equipment See Section 13 for information on disposal See Section 15 for regulatory information

7 Handling and storage

Information for safe handling:	Avoid contact with skin and eyes. Avoid dust formation. Provide appropriate exhaust ventilation.
Information about protection against explosions and fires:	No data available
Storage requirements to be met by storerooms and containers:	Keep container tightly closed in a dry and well-ventilated place
Incompatibility (avoid contact with):	Strong acids and oxidizers

8 Exposure controls/personal protection

Ventilation requirements:	Local exhaust, chemical fume hood
Components with exposure limits that require monitoring:	OSHA PEL: TWA 1 mg(Ni)/m ³ :8H ACGIH TLV: TWA 0.1 mg(Ni)/m ³
General protective and hygienic measures:	The usual precautionary measures for handling chemicals should be adhered to Keep away from foodstuffs, beverages and food Instantly remove any soiled and impregnated garments Wash hands during breaks and at the end of the work Avoid contact with the eyes and skin
Personal protective equipment:	
Respiratory protection: (Use only NIOSH or CEN approved Equipment)	Filter-dust, fume, mist; respirator equipped with HEPA
Hand protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique.
Eye protection:	Safety glasses, goggles
Skin protection:	Completely covering work attire with full length apron
Additional protective equipment:	Sufficient to prevent contact. Emergency eyewash and safety shower
Precautionary labeling:	Wash thoroughly after handling Do not get in eyes, on skin or on clothing Do not breathe dust, vapor, mist, gas Keep away from heat, sparks, and open flames Empty container may contain hazardous residues

9 Physical and chemical properties

Physical state:	Crystalline powder
Color:	Light green
Odor:	Odorless
Odor threshold:	Not determined
Molecular Weight (Calculated):	118.7
pH	Not determined
Melting point/freezing point/range:	Not determined
Boiling point/range:	Not determined
Sublimation temperature/start:	Not determined
Decomposition temperature:	Not determined
Flammability (solid, gas):	Non-flammable
Flash point:	Not determined
Autoignition temperature:	Not determined
Danger of explosion:	Not determined
Flammable limits:	
Lower:	Not determined
Upper:	Not determined
Evaporation Rate:	Not determined
Vapor pressure (mm Hg):	Not determined
Vapor density:	Not determined
Specific gravity:	2.79
Bulk density:	Not determined
Solubility in/Miscibility with water:	0.093 g/L @ 25 C
Partition coefficient n-octanol/water:	Not determined
Viscosity:	Not determined
Other information:	No additional information

10 Stability and reactivity

Reactivity:	Not determined
Chemical stability:	Stable under recommended storage conditions
Possibility of hazardous reactions:	Not determined
Conditions to be avoided:	Heat, contact with incompatibles
Materials to be avoided:	See section 7 for information on proper handling and storage
Dangerous reactions:	Not determined
Hazardous decomposition products:	Oxides of nickel, carbon monoxide and dioxide

11 Toxicological information

LD/LC50 values that are relevant for classification:	oral-rat LD ₅₀ : 840 mg/kg
Irritation or corrosion of skin:	No data available
Irritation or corrosion of eyes:	No data available
Primary irritant or corrosive effect:	
on the skin:	No data available
on the eye:	No data available
Sensitization:	Allergen, respiratory sensitizer, skin sensitizer
Potential health effects:	
Inhalation:	May cause pulmonary asthma
Ingestion:	May cause intestinal disorders, convulsions and asphyxia
Skin:	May develop "nickel itch"
Eyes:	May cause allergic conjunctivitis
Signs and symptoms of exposure:	Ingestion of large amounts has been shown to cause intestinal disorders, convulsions, and asphyxia. The most common effect resulting from exposure to nickel compounds is the development of "nickel itch". It occurs primarily under conditions of high temperature and humidity. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known
Carcinogenicity:	IARC-1: Carcinogenic to humans: sufficient evidence of carcinogenicity NTP-K: Known to be carcinogenic: sufficient evidence from human studies
Additional information:	No additional information

12 Ecotoxicological information

Toxicity:	
Toxicity to fish:	No data available
Toxicity to daphnia and other aquatic invertebrates:	No data available
Toxicity to algae:	No data available
Persistence and degradability:	
Biodegradability:	No data available
Bioaccumulative potential:	
Bioaccumulation:	No data available
Mobility in soil:	No data available
Other adverse effects:	Very toxic to aquatic life with long lasting effects

13 Disposal considerations

Recommendation:	Consult state, local or national regulation for proper disposal Allow professional disposal company to handle waste Must be specially treated under adherence to official regulations
Unclean packagings recommendation:	Disposal must be made according to official regulations

14 Transport information

Land transport DOT



Proper shipping name:	Toxic solid, inorganic, n.o.s.
Technical name:	Nickel (II) carbonate
DOT Hazard Class:	6.1
UN Identification number:	UN3288
Label(s):	Toxic
Packing group:	III
North American Emergency Response Guidebook No.:	151

Air transport ICAO-TI and IATA-DGR:



Proper shipping name:	Toxic solid, inorganic, n.o.s.
Technical name:	Nickel (II) carbonate
DOT Hazard Class:	6.1
UN Identification number:	UN3288
Label(s):	Toxic
Packing group:	III
North American Emergency Response Guidebook No.:	151

UPS Ground / FedEx Ground



Proper shipping name:	Toxic solid, inorganic, n.o.s.
Technical name:	Nickel (II) carbonate
DOT Hazard Class:	6.1
UN Identification number:	UN3288
Label(s):	Toxic
Packing group:	III
North American Emergency Response Guidebook No.:	151

UPS Air



Proper shipping name:	Toxic solid, inorganic, n.o.s.
Technical name:	Nickel (II) carbonate
DOT Hazard Class:	6.1
UN Identification number:	UN3288
Label(s):	Toxic
Packing group:	III
North American Emergency Response Guidebook No.:	151

15 Regulatory information

SARA Section 302 Extremely Hazardous components and corresponding TPQs:	Not subject
SARA Section 311 / 312 hazards:	Acute Health Hazard, Chronic Health Hazard
SARA Section 313 components:	This product contains chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-to-know Act of 1986 and 40CFR372

California Proposition 65 components:
TSCA:

WARNING: This product contains a chemical known to the State of California to cause cancer
Product is listed on TSCA Inventory

16 Other information

The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulation are subject to change and the conditions of handling and use, or misuse are beyond our control. NOAH MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use.

Review date: June 9, 2015