



SAFETY DATA SHEET

Preparation Date: 1/24/2018 Revision Date: 1/24/2018 Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: N1045

Product Name: NICKEL CARBONATE BASIC, POWDER, REAGENT

Other means of identification

Synonyms: Basic nickel carbonate tetrahydrate

Nickel carbonate hydroxide tetrahydrate

CAS #: 39430-27-8
RTECS # QR6260000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: In ceramic glazes and enamels. Catalyst. Used in nickel plating.

Uses advised against

No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1

Label elements

Danger

Product code: N1045 Product name: NICKEL CARBONATE 1/12

Hazard statements

Harmful if swallowed

Harmful if inhaled

Causes skin irritation

Causes serious eye irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

May cause cancer

May damage fertility or the unborn child

Causes damage to organs through prolonged or repeated exposure



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Obtain special instructions before use

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

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing must not be allowed out of the workplace

Wear protective gloves

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water

Take off contaminated clothing and wash it before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements - Storage

Store locked up

Product code: N1045

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Nickel Carbonate Basic	39430-27-8	100

4. FIRST AID MEASURES

Product name: NICKEL CARBONATE BASIC, POWDER, REAGENT

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention. If symptoms persist, call a

physician.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms Causes skin irritation

Moderately irritating to the skin Causes serious eye irritation Moderately irritating to the eyes May cause allergic respiratory reaction

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction May cause allergic contact dermatitis "Nickel itch", dermititis, sensitization to nickel

May cause nausea and vomiting

Abdominal pain

May cause metallic taste Coughing and wheezing

Sore throat

Dyspnea (Difficulty breathing and shortness of breath)

Weakness Somnolence Blurred vision

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: If it is involved in a fire the following can be released:.

Nickel oxides.

Product code: N1045 Product name: NICKEL CARBONATE

Specific hazards:No information available.

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Wear

personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Avoid

dust formation.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent from entering into soil, ditches, sewers, waterways, and/or ground

water.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning upSweep up and shovel. Use appropriate tools to put the spilled material in a

suitable chemical waste disposal container. Clean contaminated surface

thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents Strong acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

Product code: N1045 Product name: NICKEL CARBONATE 4/12

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Nickel Carbonate Basic	39430-27-8	1 mg/m³ TWA (as Ni)	0.015 mg/m ³ TWA (as	None	None
		(nickel insoluble	Ni except Nickel		
		compounds)	carbonyl) (nickel		
			compounds)		

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Nickel Carbonate Basic	39430-27-8	0.2 mg/m³ TWA (as Ni)	None	0.2 mg/m³ TWA (as Ni)	` `
		(nickel insoluble		(nickel insoluble	Ni) (nickel insoluble
		compounds)		compounds)	compounds)

Australia and Mexico

	Components	CAS-No.	Australia	Mexico
ı	Nickel Carbonate Basic	39430-27-8	None	None

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Use process enclosures,

local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants

below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles or Safety glasses with side-shields

Skin and body protection: Chemical resistant apron

Long sleeved clothing

Gloves

Respiratory protection: Effective dust mask. Use a dust respirator under conditions where exposure to

the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified

respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:SolidPowder.Light green.

Odor: Taste Formula:

Odorless. No information available. NiCO3.2Ni(OH)2.4H2O

Molecular/Formula weight:Flammability:Flashpoint (°C/°F):376.24 g/molNo information availableNo information available.

Product code: N1045 Product name: NICKEL CARBONATE 5 / 12

Flash Point Tested according to:

Not available

Autoignition Temperature (°C/°F):

No information available

Lower Explosion Limit (%): No information available

Upper Explosion Limit (%):

Melting point/range(°C/°F):

Decomposition temperature(°C/°F):

No information available

No information available

No information available

Boiling point/range(°C/°F):

Bulk density: No information available

No information available

Density (g/cm3): No information available

Specific gravity:

pH:

No information available

No information available

Vapor pressure @ 20°C (kPa): No information available

Evaporation rate:

Vapor density:

VOC content (q/L):

No information available

No information available

No information available

Odor threshold (ppm): No information available

No information available

Partition coefficient (n-octanol/water):

Viscosity:

No information available

No information available

Miscibility:

Solubility:

Insoluble in water Soluble in ammonia

Soluble in dilute acids with

effervescence

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Excess Heat. Incompatible materials. Avoid dust formation.

Strong oxidizing agents Incompatible Materials:

Strong acids

Hazardous decomposition

Nickel oxides.

products:

Other Information

No information available Corrosivity:

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Product code: N1045 Product name: NICKEL CARBONATE 6/12

Component Information

Nickel Carbonate Basic

CAS-No. 39430-27-8

LD50/oral/rat = 840 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 840 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

Product code: N1045

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin irritation. Moderately irritating to the skin. Some individuals may

become sensitized and suffer "nickel itch", a form of dermatitis resulting from sensitization to nickel. It is characterized by skin eruptions followed by discrete

ulcers, or by eczema.

Eye Contact: Causes serious eye irritation. Moderately irritating to the eyes.

Inhalation Harmful by inhalation. May cause irritation of respiratory tract. Symptoms may

include coughing, wheezing, sore throat, hoarseness, shortness of breath (dyspnea), asthma, bronchitis, metallic taste in mouth. Other symptoms of

inhalation of nickel or nickel compounds may include nausea, vomiting, abdominal pain, giddiness, dizziness, weakness, somnolence, sleeplessness, dysphoria,

blurred vision, and numbness.

Ingestion Harmful if swallowed.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Product name: NICKEL CARBONATE BASIC, POWDER, REAGENT

Chronic Toxicity Skin: Sensitizer. May cause allergic skin reaction (allergic contact dermatitis).

Inhalation: May cause allergic respiratory reaction (occupational asthma). Prolonged or repeated inhalation may cause respiratory sensitization.

Sensitization: May cause sensitization by inhalation and skin contact.

Mutagenic Effects: Sister Chromatid Exchange: Hamster ovary (RTECS)

DNA Damage - human lymphocyte

Carcinogenic effects: May cause cancer.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Nickel Carbonate Basic		Group 1- Carcinogenic to Humans - Monograph 100C[2012]; Monograph 49[1990](evalu ated as a group) (for Nickel compounds)		Not listed	Present (as Nickel compounds)	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity

May damage fertility or the unborn child

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available.

STOT - repeated exposureCauses damage to organs through prolonged or repeated exposure.

Target Organs: Skin. Respiratory system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

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13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
			wasies	wasies	Wastes
Nickel Carbonate Basic	39430-27-8	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Class
Packing group:
No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

ADR

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

RID

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class: No information available

Product code: N1045 **Product name:** NICKEL CARBONATE BASIC, POWDER, REAGENT

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Subsidiary Risk: No information available Packing Group: No information available

ICAO

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
No information available
No information available
No information available
No information available

IATA

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
ERG Code:
No information available

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Nickel Carbonate Basic	39430-27-8	Not Listed	Not present	Not present	Present (1)-167	Present[20837	Present	Not present

U.S. Regulations

Nickel Carbonate Basic

New Jersey RTK Hazardous Substance List: sn 2366

New Jersey (EHS) List: SN 2366 500 lb TPQ (as Nickel compounds)

New Jersey - Discharge Prevention - List of Hazardous Substances: Present (as Nickel compounds)

Pennsylvania RTK: Environmental Hazard (as Nickel compounds)

Pennsylvania RTK - Environmental Hazard List Present

Minnesota - Hazardous Substance List: Present (Carcinogen as Ni)(for nickel insoluble compounds)

California Directors List of Hazardous Substances: Present (as Nickel compounds)

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

MARNING: This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov.

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen		Reproductive	Female Reproductive Toxicity:
Nickel Carbonate Basic	39430-27-8	Carcinogen (listed as Nickel compounds)	Not Listed	Not Listed	Not Listed

CERCLA/SARA

ſ	Components	CAS-No.	CERCLA -	Section 302	Section 302	Section 313 -	Section 313 -
	-		Hazardous	Extremely	Extremely	Chemical Category	Reporting
			Substances and	Hazardous	Hazardous		de minimis
			their Reportable	Substances	Substances and		

Product code: N1045 Product name: NICKEL CARBONATE 10 / 12
BASIC, POWDER, REAGENT

		Quantities	and TPQs	RQs		
Nickel Carbonate	39430-27-8	None	None	None	Nickel compounds	0.1%
Basic						

U.S. TSCA

Components		· · · · · · · · · · · · · · · · · · ·	TSCA 8(d) -Health and Safety Reporting
Nickel Carbonate Basic	39430-27-8	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

D2A Very toxic materials D2B Toxic materials

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

	Canada (DSL)	Canada (NDSL)
Nickel Carbonate Basic 39430-27-8	Not Listed	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Nickel Carbonate Basic	39430-27-8	Not listed
Components		CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Nickel Carbonate Basic	39430-27-8	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Nickel Carbonate Basic	39430-27-8	No information

EU - CLP (1272/2008)

R-phrase(s)

R22 - Harmful if swallowed.

R42/43 - May cause sensitization by inhalation and skin contact.

S -phrase(s)

S46 - If swallowed, seek medical advice immediately and show this container or label.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 - Wear suitable gloves.

Components CA	AS-No.	Classification	Concentration	Safety Phrases
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Product code: N1045 Product name: NICKEL CARBONATE 11 / 12

		Limits:	
Nickel Carbonate Basic	39430-27-8	No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Xn - Harmful.

Xn



16. OTHER INFORMATION

Preparation Date: 1/24/2018
Revision Date: 1/24/2018
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

Product code: N1045

Product name: NICKEL CARBONATE BASIC, POWDER, REAGENT