

# SAFETY DATA SHEET

## Nickel Hydroxycarbonate

Version 3.1

US

SDS Number: 300000002046

Revision Date: 02/22/2022

### SECTION 1. IDENTIFICATION

Product name : Nickel Hydroxycarbonate

Trade name : Nickel Hydroxycarbonate 33% ; Nickel Hydroxycarbonate 40% ; Nickel Hydroxycarbonate 46% ; Nickel Hydroxycarbonate 49% ; Nickel Hydroxycarbonate 42% - 44% ; Nickel carbonate, 45.5%;  
Nickel Hydroxycarbonate 49%, powder, paste, granules pearls;  
NICKEL SALTS UMN48

Product code : 300000002046

CAS-No. : 12607-70-4

#### **Manufacturer or supplier's details**

Company name of supplier :

Address :

E-mail address of person responsible for the SDS :

#### **Poison Center**

Telephone : +1 800 222 1222

Hours of operation : 24HRS

#### **Supplier**

Emergency telephone number : For transport in Europe, Central- and South America, Israel and Africa (Non-Arabic speaking countries):(+32) 3 213 15 70  
For transport in the Middle East (Israel excluded) & Arabic speaking Africa:(+32) 3 213 33 79  
For transport in the USA and Canada:(+1)-877 986 4267  
For transport in Asian and the Pacific (China excluded):(+65) 62 64 78 36  
For transport in China:(+86) 0532 8388 9090

Hours of operation : This telephone number is available 24 hours per day, 7 days per week.

#### **Recommended use of the chemical and restrictions on use**

Recommended use : Chemical plating of metals  
Production of catalysts and catalyst precursors

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral)	: Category 4
Acute toxicity (Inhalation)	: Category 2
Skin irritation	: Category 2
Eye irritation	: Category 2A
Respiratory sensitisation	: Category 1
Skin sensitisation	: Category 1
Germ cell mutagenicity	: Category 2
Carcinogenicity (Inhalation)	: Category 1A
Reproductive toxicity	: Category 1B
Specific target organ toxicity - repeated exposure	: Category 1
Short-term (acute) aquatic hazard	: Category 1
Long-term (chronic) aquatic hazard	: Category 1

#### GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H330 Fatal if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H341 Suspected of causing genetic defects.  
H350i May cause cancer by inhalation.  
H360 May damage fertility or the unborn child.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements

: **Prevention:**

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/ vapours/ spray.  
P264 Wash 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 eye protection/ face protection.  
P280 Wear protective gloves.  
P281 Use personal protective equipment as required.  
P284 Wear respiratory protection.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.  
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.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
P391 Collect spillage.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance  
Substance name : Nickel carbonate hydroxide  
CAS-No. : 12607-70-4

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### Components

Chemical name	CAS-No.	Concentration (% w/w)
Nickel carbonate hydroxide	12607-70-4	<= 100

## SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.
- If inhaled : Call a physician or poison control centre immediately.  
Move to fresh air.  
If unconscious, place in recovery position and get medical attention immediately.
- In case of skin contact : If on skin, rinse well with water.  
If on clothes, remove clothes.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before reuse.
- In case of eye contact : Remove contact lenses.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Protect unharmed eye.  
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Skin contact may provoke the following symptoms:  
Allergic reactions  
Redness  
Inhalation may provoke the following symptoms:  
Shortness of breath  
Asthma  
Ingestion may provoke the following symptoms:  
Stomach/intestinal disorders  
In case of eye contact  
Excessive lachrymation

## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet

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- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Nickel compounds
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Conditions for safe storage : Prevent unauthorized access.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with

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the technological safety standards.

To maintain product quality, do not store in heat or direct sunlight.

Further information on storage stability : Keep in a dry place.  
No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Nickel carbonate hydroxide	12607-70-4	TWA	1 mg/m <sup>3</sup> (Nickel)	OSHA Z-1
		TWA	1 mg/m <sup>3</sup> (Nickel)	OSHA P0
		TWA	0.015 mg/m <sup>3</sup> (Nickel)	NIOSH REL
		TWA (Inhalable fraction)	0.2 mg/m <sup>3</sup> (Nickel)	ACGIH

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).

#### Personal protective equipment

**Respiratory protection** : In the case of dust or aerosol formation use respirator with an approved filter.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Wear a NIOSH-approved respirator  
Category 21C air-purifying respirator equipped with a full facepiece and high efficiency particulate filters.

#### Hand protection

Material : Nitrile rubber  
Break through time : > 480 min  
Glove thickness : 0.12 mm

Material : PVC  
Break through time : > 480 min  
Glove thickness : 1.1 mm

Material : Neoprene  
Break through time : > 480 min  
Glove thickness : 0.35 mm

Glove length : Long sleeve gloves

Glove length : Long sleeve gloves

**Eye protection** : Wear safety glasses with side shields or goggles.

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Skin and body protection	:	Footwear protecting against chemicals
Protective measures	:	Ensure that eye flushing systems and safety showers are located close to the working place.
Hygiene measures	:	Avoid contact with skin, eyes and clothing. General industrial hygiene practice. Wash hands before breaks and immediately after handling the product.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	green
Odour	:	odourless
Melting point/range	:	Decomposition
Flash point	:	Not applicable
Flammability (solid, gas)	:	The product is not flammable.
Self-ignition	:	> 752 °F / > 400 °C
Density	:	2.96 g/cm <sup>3</sup> (72.5 °F / 22.5 °C)
Solubility(ies)	:	
Water solubility	:	0.0329 g/l practically insoluble
Auto-ignition temperature	:	> 752 °F / > 400 °C
Decomposition temperature	:	464 °F / 240 °C
Viscosity	:	
Viscosity, kinematic	:	data waiving in REACH dossier
Oxidizing properties	:	No data available
Self-heating substances	:	Not applicable
Molecular weight	:	304.18 g/mol
Metal corrosion rate	:	Not corrosive to metals
Minimum ignition energy	:	not determined

### SECTION 10. STABILITY AND REACTIVITY

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Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	None known.
Incompatible materials	:	Strong acids
Hazardous decomposition products	:	No decomposition if stored normally.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

##### Components:

##### **Nickel carbonate hydroxide:**

Acute oral toxicity	:	LD50 (Rat, female): 2,000 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	:	LC50 (Rat, male): 0.2437 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403

#### Skin corrosion/irritation

##### Components:

##### **Nickel carbonate hydroxide:**

Species	:	Rabbit
Exposure time	:	4 h
Method	:	OECD Test Guideline 404
Result	:	Skin irritation
GLP	:	yes

#### Serious eye damage/eye irritation

##### Product:

Remarks	:	No data available
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### Components:

#### **Nickel carbonate hydroxide:**

Species : Rabbit  
Result : Eye irritation  
Method : OECD Test Guideline 405

### **Respiratory or skin sensitisation**

#### Components:

#### **Nickel carbonate hydroxide:**

Exposure routes : Inhalation  
Species : Humans  
Result : May cause sensitisation by inhalation.  
GLP : no

Exposure routes : Skin contact  
Species : Humans  
Result : May cause sensitisation by skin contact.  
GLP : no

### **Germ cell mutagenicity**

#### Product:

Genotoxicity in vitro : Remarks: No data available

#### Components:

#### **Nickel carbonate hydroxide:**

Genotoxicity in vitro : Test system: Mammalian-Animal  
Method: OECD Test Guideline 476  
Result: Conflicting results have been seen in different studies.  
GLP: yes

Genotoxicity in vivo : Species: Mammalian-Animal  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: Based on read across from structural related substance  
nickel sulphate

Germ cell mutagenicity - Assessment : In vitro tests showed mutagenic effects

### **Carcinogenicity**

#### Product:

Remarks : No data available

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### Components:

#### **Nickel carbonate hydroxide:**

Species : Rat, male and female  
Application Route : Oral  
Exposure time : 104 weeks  
Dose : 10; 30; 50 mg/kg body weight  
Frequency of Treatment : daily  
NOAEL : 11 mg/kg bw/day  
Method : OECD Test Guideline 451  
Result : negative  
GLP : yes  
Remarks : unit expressed as mg metal/kg  
Based on read across from structural related substance  
nickel sulphate

Carcinogenicity - Assessment : Positive evidence from human epidemiological studies (inhalation)

**IARC** Group 1: Carcinogenic to humans  
Nickel carbonate hydroxide 12607-70-4  
(Nickel compounds)

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** Known to be human carcinogen  
Nickel carbonate hydroxide 12607-70-4  
(Nickel Compounds)

### **Reproductive toxicity**

#### Product:

Effects on fertility : Remarks: No data available

### Components:

#### **Nickel carbonate hydroxide:**

Effects on fertility : Species: Rat  
Application Route: Oral  
Dose: 0; 1; 2,5; 5;10 milligram per kilogram  
General Toxicity - Parent: NOAEL: 10 mg/kg body weight  
General Toxicity F1: NOAEL: 10 mg/kg body weight  
Method: OECD Test Guideline 416  
Remarks: Based on read across from structural related substance  
nickel sulphate

Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Duration of Single Treatment: 13 Weeks  
General Toxicity - Parent: NOAEL: 0.45 mg/m<sup>3</sup>  
Remarks: unit expressed as mg metal/m<sup>3</sup>  
Based on read across from structural related substance

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nickel sulphate

Reproductive toxicity - Assessment : Clear evidence of adverse effects on development, based on animal experiments.

### STOT - single exposure

#### Product:

Remarks : No data available

### STOT - repeated exposure

#### Product:

Remarks : No data available

#### Components:

##### Nickel carbonate hydroxide:

Assessment : Causes damage to organs through prolonged or repeated exposure.

### Repeated dose toxicity

#### Components:

##### Nickel carbonate hydroxide:

Species : Rat, male and female  
NOAEL : 2.2 mg/kg  
LOAEL : 6.7 mg/kg  
Application Route : Oral  
Exposure time : 104 weeks  
Dose : 10; 30; 50  
Method : OECD Test Guideline 451  
GLP : yes  
Remarks : unit expressed as mg metal/kg  
Based on read across from structural related substance  
nickel sulphate

Species : Rat, females  
NOAEL : 0.2 mg/kg  
Application Route : Inhalation  
Exposure time : 13 weeks  
Method : OECD Test Guideline 413  
Remarks : unit expressed as mg metal/m<sup>3</sup>  
Based on read across from structural related substance  
nickel sulphide

### Further information

#### Product:

Remarks : No data available

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### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Product:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia dubia (water flea)): 0.0124 mg/l  
Exposure time: 7 DAYS  
Remarks: Fresh water

##### Components:

##### **Nickel carbonate hydroxide:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 15.3 mg/l  
Exposure time: 96 h  
Remarks: Based on read across from structural related substance  
Nickel chloride  
unit expressed as mg metal/l  
Fresh water

Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia (water flea)): 0.013 mg/l  
Exposure time: 48 h  
Remarks: unit expressed as mg metal/l  
Fresh water  
Based on read across from structural related substance  
Nickel chloride

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): > 0.0815 - < 0.148 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Fresh water  
Based on read across from structural related substance

EC50 (Pseudokirchneriella subcapitata (algae)): > 0.0253 - < 0.365 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Fresh water  
Based on read across from structural related substance

NOEC (Desmodesmus sp.): 0.0225 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: unit expressed as mg metal/l  
Fresh water  
Based on read across from structural related substance

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): 0.04 mg/l  
Exposure time: 8 days  
Remarks: Fresh water  
Based on read across from structural related substance  
nickel sulphate

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- NOEC (Pimephales promelas (fathead minnow)): 0.057 mg/l  
Exposure time: 32 days  
Remarks: Fresh water  
Based on read across from structural related substance  
Nickel chloride
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.04 mg/l  
Exposure time: 42 days  
Remarks: Fresh water  
Based on read across from structural related substance  
Nickel chloride
- NOEC (Daphnia magna (Water flea)): > 0.09 mg/l  
Exposure time: 21 DAYS  
Remarks: Fresh water  
Based on read across from structural related substance  
Nickel acetate
- Toxicity to microorganisms : EC50: 33 mg/l  
Exposure time: 30 min  
Method: ISO 8192  
Remarks: unit expressed as mg metal/l  
Based on read across from structural related substance
- Toxicity to soil dwelling organisms : NOEC (Eisenia fetida (earthworms)): 180 mg/kg  
Exposure time: 21 days  
Remarks: unit expressed as mg metal/kg  
Based on read across from structural related substance
- NOEC: 320 mg/kg  
Exposure time: 28 days  
Remarks: unit expressed as mg metal/kg  
Based on read across from structural related substance
- Plant toxicity : NOEC: 88 mg/kg  
Exposure time: 60 d  
Species: Avena sativa (oats)  
Remarks: unit expressed as mg metal/kg  
Based on read across from structural related substance
- EC10: 34 mg/kg  
Exposure time: 63 d  
Species: Lactuca sativa (lettuce)  
Remarks: unit expressed as mg metal/kg  
Based on read across from structural related substance
- Sediment toxicity : EC10 (Chironomus riparius): 762 mg/kg  
Remarks: unit expressed as mg metal/kg  
Fresh water  
Based on read across from structural related substance
- EC10 (Tubifex tubifex): 1103 mg/kg  
Remarks: unit expressed as mg metal/kg  
Fresh water  
Based on read across from structural related substance

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EC10 (Hyalella azteca): 82 mg/kg  
Remarks: unit expressed as mg metal/kg  
Fresh water  
Based on read across from structural related substance

Toxicity to terrestrial organisms : NOEC (Anas platyrhynchos (Mallard duck)): 800  
Exposure time: 90 days  
Remarks: Based on read across from structural related substance

### Persistence and degradability

No data available

### Bioaccumulative potential

#### Components:

#### **Nickel carbonate hydroxide:**

Bioaccumulation : Bioconcentration factor (BCF): > 1,631  
Method: field study  
Remarks: terrestrial environment  
Based on read across from structural related substance

Bioconcentration factor (BCF): 270  
Method: field study  
Remarks: Fresh water  
Based on read across from structural related substance

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : Very toxic to aquatic life with long lasting effects.

#### Components:

#### **Nickel carbonate hydroxide:**

Results of PBT and vPvB assessment : not applicable for inorganic substances

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### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
Dispose of as hazardous waste in compliance with local and national regulations.
- Contaminated packaging : Empty remaining contents.  
Dispose of contaminated packaging as if unused product.  
Do not re-use empty containers.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

- UN number : UN 3288  
Proper shipping name : TOXIC SOLID, INORGANIC, N.O.S.  
(nickel hydroxycarbonate)  
Class : 6.1  
Packing group : II  
Labels : 6.1



- Marine pollutant : yes

##### IATA-DGR

- UN/ID No. : UN 3288  
Proper shipping name : Toxic solid, inorganic, n.o.s.  
(nickel hydroxycarbonate)  
Class : 6.1  
Packing group : II  
Labels : Toxic



- Packing instruction (cargo aircraft) : 676  
Maximum quantity : 100.00 KG  
Packing instruction (passenger aircraft) : 669  
Maximum quantity : 25.00 KG  
Environmentally hazardous : yes

##### IMDG-Code

- UN number : UN 3288

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Proper shipping name : TOXIC SOLID, INORGANIC, N.O.S.  
(nickel hydroxycarbonate)  
Class : 6.1  
Packing group : II  
Labels : 6.1



EmS Code : F-A, S-A  
Marine pollutant : yes

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### 49 CFR

UN/ID/NA number : UN 3288  
Proper shipping name : Toxic solid, inorganic, n.o.s.  
(nickel hydroxycarbonate)  
Class : 6.1  
Packing group : II  
Labels : TOXIC



ERG Code : 151  
Marine pollutant : yes

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Carcinogenicity  
Germ cell mutagenicity  
Reproductive toxicity  
Acute toxicity (any route of exposure)  
Serious eye damage or eye irritation  
Skin corrosion or irritation  
Respiratory or skin sensitisation



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Specific target organ toxicity (single or repeated exposure)

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Nickel carbonate hydroxide	12607-70-4	100 %
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### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

Nickel carbonate hydroxide	12607-70-4	100 %
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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Nickel carbonate hydroxide	12607-70-4	100 %
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This product does not contain any priority pollutants related to the U.S. Clean Water Act

### US State Regulations

#### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know

Nickel carbonate hydroxide	12607-70-4
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#### Maine Chemicals of High Concern

Nickel carbonate hydroxide	12607-70-4
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#### Vermont Chemicals of High Concern

Product does not contain any listed chemicals

#### Washington Chemicals of High Concern

Product does not contain any listed chemicals

#### California Prop. 65

WARNING: This product can expose you to chemicals including Nickel carbonate hydroxide, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### California List of Hazardous Substances

Nickel carbonate hydroxide	12607-70-4
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# SAFETY DATA SHEET

## Nickel Hydroxycarbonate

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### California Permissible Exposure Limits for Chemical Contaminants

Nickel carbonate hydroxide

12607-70-4

### The components of this product are reported in the following inventories:

TSCA	:	All substances listed as active on the TSCA inventory
AIRC	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory
CH INV	:	On the inventory, or in compliance with the inventory
TCSI	:	On the inventory, or in compliance with the inventory

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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## SECTION 16. OTHER INFORMATION

### Further information

# SAFETY DATA SHEET

## Nickel Hydroxycarbonate

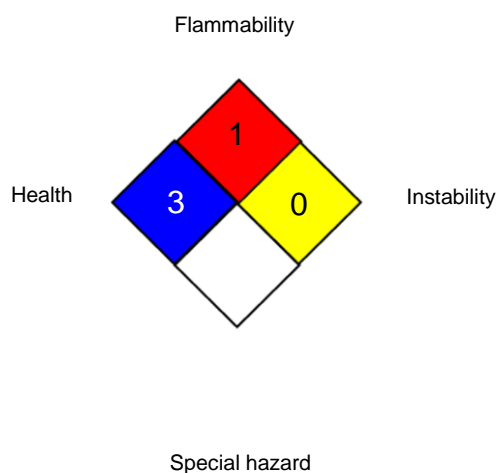
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### NFPA 704:



### HMIS® IV:

HEALTH	*	3
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New

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Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 02/22/2022

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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