# NICKEL CARBONATE MATERIAL SAFETY DATA SHEET

MSDS Number: N724 Revision Date: 16-Apr-08 Revision No.: 004

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**Product Identification** 

Product Name: NICKEL CARBONATE

Synonyms: Nickelous carbonate; Nickel (II) carbonate; Carbonic acid, nickel salt

<u>Chemical Formula:</u> NiCO3 <u>Formula Weight:</u> 118.72

**Chemical Family:** 

Integra Product Numbers: N724.10; N724.50

**Hazard Overview** 

HMIS Rating: 3-0-0-F

NFPA Rating: NE

Warning Label:

**WARNING** 

Causes irritation. Harmful if swallowed or inhaled. Use only with adequate ventilation. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Nickel and nickel compounds may cause allergic skin or respiratory reaction.

Possible cancer hazard. Handle with due care.

Components

 Component
 CAS #
 %

 Nickel carbonate
 03333-67-3
 100

**Physical Data** 

Boiling Point:NASpecific Gravity:NAMelting Point:decomposesEvaporation Rate:NA

Vapor Pressure:

NA

Vapor Density:

NA Air = 1

Solubility:

Negligible (<0.1%) solubility in water.

Appearance and Odor:

Light green powder.

Fire and Explosion Data

Flash Point: NA Test Method:

Auto-ignition Temperature: NA

Flammable Limits (% by volume in air): Upper: NA Lower: NA

Fire Extinguishing Media:

Material is not flammable. Use extinguishing media suitable to surrounding materials.

**Special Firefighting Procedures:** 

Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.

**Unusual Fire and Explosion Hazards:** 

None identified

## **Health Hazard Information**

## Effects of Overexposure

Skin Contact:

Contact may cause skin irritation. May cause allergic dermatitis. Nickel is a contact allergen and sensitizer.

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#### **Health Hazard Information**

#### **Eye Contact:**

Contact may be irritating to the eyes.

#### Ingestion:

Harmful if swallowed. Ingestion may cause nausea, vomiting and gastrointestinal irritation.

#### Inhalation:

Harmful if inhaled. Irritating to the upper respiratory tract and mucous membranes.

#### Chronic Effects of Overexposure:

Prolonged or excessive exposure to dusts may cause chronic pulmonary disorders, skin and respiratory sensitization and allergic reaction. Nickel and certain nickel compounds are considered carcinogenic and noted for producing lung and nasal cancers.

Exposure Limits:	OSHA PEL		
	<u>TWA</u>	<u>STEL</u>	<u>Ceiling</u>
Nickel carbonate	(as Ni) 1 mg/m3	NE	NE
	ACGIH TLV		
	<u>TWA</u>	<u>STEL</u>	<u>Ceiling</u>
Nickel carbonate	(as Ni) 1 mg/m3	NE	NE

**Toxicity Data:** 

Nickel carbonate No information available.

## Medical Conditions Generally Aggravated by Exposure:

Skin and respiratory conditions.

## **Target Organs:**

Respiratory system, lungs, eyes, skin

#### Reproductive Effects:

None Identified

## Carcinogenicity:

Nickel and certain nickel compounds are considered carcinogenic

 Component
 NTP Listing
 IARC Listing
 OSHA Regulated

 Nickel carbonate
 Group 2, Possible Carcinogen
 No Listing

Emergency First Aid Procedures

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## **Skin Contact:**

Immediately remove contaminated clothing. Flush skin with water for at least 15 minutes. Seek immediate medical attention.

## **Eye Contact:**

Flush with water for at least 15 minutes. Seek immediate medical attention.

#### Inhalation:

Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult administer oxygen. Seek medical attention.

#### Ingestion:

Give victim large amounts of water and induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention.

## Additional First aid and Treatment Notes:

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## **Emergency First Aid Procedures**

No information available

## **Reactivity Data**

Stability: Stable

Hazardous Polymerization: Will Not Occur

Incompatibles:

For nickel: aluminum, aluminum trichloride, ethylene, p-dioxan, hydrogen, methanol, non-metals, oxidants, sulfur compounds, mineral acids.

#### **Decomposition Products:**

CO2. Nickel oxides and nickel carbonyl may also be released.

#### Conditions to Avoid:

Contamination.

## **Spill and Disposal Procedures**

## Spill and Leak Procedures:

Prevent spread of spill. Sweep or scoop into disposal container. Flush residues with water. Wear suitable protective equipment. Vacuuming or wet sweeping may be used to avoid dust dispersion.

## **Disposal Procedures:**

Dispose in accordance with all Local, State and Federal regulations.

#### **Protective Equipment**

## Ventilation:

Use general or local exhaust ventilation to meet TLV and PEL requirements.

## **Respiratory Protection:**

None required where adequate ventilation conditions exist. If airborne concentration exceeds PEL or TLV a dust/mist respirator is recommended.

#### Skin and Eye Protective Equipment:

Safety goggles, protective clothing and gloves. Maintain an eyewash station and safety shower nearby.

## **Storage and Handling Precautions**

### Storage Area: HEALTH HAZARD

Store in a cool, dry well-ventilated area or cabinet dedicated to toxic storage. Isolate away from incompatible materials. Keep containers well closed.

## **Transportation Information**

☐ Regulated Material domestic ground transportation

(reference: CFR Title 49, Transportation)

Proper Shipping Name:

UN or NA Identification number: Hazard Class and Label: Packing Group: Subsidiary Risk and Label:

☐ Regulated Material via Air Transportation

(reference: ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air)

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Page 4 24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887) **Transportation Information** Proper Shipping Name: **UN Identification Number:** Hazard Class and Label: Packing Group: Subsidiary Risk and Label: Packing Instruction Max net qty per package Passenger Aircraft: Cargo Aircraft: **Regulatory Information TSCA CERCLA SARA EHS** SARA 313 Toxic Release Component **Inventory** RQ **TPQ** de minimus Nickel carbonate  $\checkmark$ П lbs lbs lbs **SARA Hazard Categories: Acute** Flammability Reactivity **Chronic** <u>Pressure</u>  $\checkmark$ lacksquareNickel carbonate **SOCMI** Volatile HAP Organic HAP Ozone Depleting Clean Air Act Categories: **HAP** Nickel carbonate **MSDS Revision History:** 

002 - Changed header phone number

003 - Format revisions; updated header phone number

004 - Updated Header Information

NE = Not established, NA = Not applicable or Not available

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