



J.T. Baker Inc.  
222 Red School Lane  
Phillipsburg, NJ 08865

24-Hour Emergency Telephone 908-859-2151  
National Response Center 800-424-8802  
Chemtrec 800-424-9300

**MATERIAL SAFETY DATA SHEET**

**FICHE  
SIGNALETIQUE**

National Response In Canada  
CANUTEC 613-996-6666

**HOJAS DE DATOS  
DE SEGURIDAD**

Outside U.S. and Canada  
Chemtrec 202-483-7616

N2970 -05  
Effective: 09/25/89

Nickelous Carbonate

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Issued: 02/05/91

J.T.BAKER INC., 222 Red School Lane, Phillipsburg, NJ 08865

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**SECTION I - PRODUCT IDENTIFICATION**

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Product Name: Nickelous Carbonate  
Common Synonyms: Nickel (II) Carbonate; Carbonic Acid, Nickel Salt; C.I. 77779  
Chemical Family: Nickel Compounds  
Formula: NiCO<sub>3</sub>  
Formula Wt.: 118.72  
CAS No.: 3333-67-3  
NIOSH/RTECS No.: QR6200000  
Product Use: Laboratory Reagent  
Product Codes: 2765,2764,5177

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**PRECAUTIONARY LABELING**

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BAKER SAF-T-DATA\* System

HEALTH	FLAMMABILITY	REACTIVITY	CONTACT
 CANCER 3 SEVERE	 0 NONE	 0 NONE	 3 SEVERE

Laboratory Protective Equipment



U.S. Precautionary Labeling

**DANGER!**

CAUSES IRRITATION. HARMFUL IF SWALLOWED OR INHALED. CAUTION: CONTAINS NICKEL, CANCER HAZARD. EXCEPTIONAL HEALTH AND CONTACT HAZARDS: READ MATERIAL SAFETY DATA SHEET.

Do not get in eyes, on skin, on clothing. Do not breathe dust. Keep in tightly closed container. Use with adequate ventilation. Wash thoroughly after handling.

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===== PRECAUTIONARY LABELING (CONTINUED) =====

International Labeling

Avoid contact with eyes. After contact with skin, wash immediately with plenty of water. Keep container tightly closed.

MF-T-DATA\* Storage Color Code: Blue (health)

===== SECTION II - COMPONENTS =====

Component	CAS No.	Weight %	OSHA/PEL	ACGIH/TLV
Nickelous Carbonate	3333-67-3	99-100	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>

TLV and PEL are for Nickel, metal and insoluble compounds, as Ni.

===== SECTION III - PHYSICAL DATA =====

Boiling Point: N/A Vapor Pressure (mmHg): N/A

Melting Point: N/A Vapor Density (air=1): N/A

Specific Gravity: N/A (H<sub>2</sub>O=1) Evaporation Rate: N/A

Solubility(H<sub>2</sub>O): Negligible (<0.1%) % Volatiles by Volume: 0 (21°C)

Density: N/A Physical State: Solid

Color Threshold (ppm): N/A

Efficient Water/Oil Distribution: N/A

Appearance & Odor: Light green powder. Odorless.



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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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Flash Point (Closed Cup): N/A

Autoignition Temperature: N/A

Flammable Limits: Upper - N/A Lower - N/A

Fire Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Special Fire-Fighting Procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

Unusual Fire & Explosion Hazards

None identified.

Toxic Gases Produced

carbon monoxide, carbon dioxide, nickel fumes

Explosion Data-Sensitivity to Mechanical Impact

None identified.

Explosion Data-Sensitivity to Static Discharge

None identified.

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SECTION V - HEALTH HAZARD DATA

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Threshold Limit Value (TLV/TWA): 1 mg/m<sup>3</sup>

TLV is for Nickel, metal and insoluble compounds, as Ni.

Short-Term Exposure Limit (STEL): Not Established

Permissible Exposure Limit (PEL): 1 mg/m<sup>3</sup>

PEL is for Nickel, metal and insoluble compounds, as Ni.

Toxicity of Components

No information is available

Carcinogenicity: NTP: Yes IARC: Yes Z List: No OSHA Reg: No



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SECTION V - HEALTH HAZARD DATA (CONTINUED)

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Carcinogenicity

This substance is listed as a NTP anticipated human carcinogen and an IARC probable human carcinogen (Groups 2A and 2B).

Reproductive Effects

None identified.

Effects of Overexposure

INHALATION: irritation of upper respiratory tract

SKIN CONTACT: irritation

EYE CONTACT: irritation

SKIN ABSORPTION: none identified

INGESTION: nausea, vomiting

CHRONIC EFFECTS: by inhalation - irritation of upper respiratory tract, coughing, difficult breathing, lung and nasal cancer

Target Organs

nasal cavities, respiratory system, lungs, skin

Medical Conditions Generally Aggravated by Exposure

none identified

Primary Routes of Entry

inhalation, ingestion, skin contact, eye contact

Emergency and First Aid Procedures

INGESTION: CALL A PHYSICIAN. If swallowed, if conscious, immediately induce vomiting.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

SKIN CONTACT: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use.



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SECTION V - HEALTH HAZARD DATA (CONTINUED)

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EYE CONTACT: In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

SARA/TITLE III HAZARD CATEGORIES and LISTS

Acute: Yes Chronic: Yes Flammability: No Pressure: No Reactivity: No

Extremely Hazardous Substance: Yes Contains Nickel (RQ = 1 LB, TPQ = 10,000 LBS)

CERCLA Hazardous Substance: Yes Contains Nickel (RQ = 1 LB)

SARA 313 Toxic Chemicals: Yes Contains Nickel

Generic Class: C15

TSCA Inventory: Yes

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SECTION VI - REACTIVITY DATA

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Stability: Stable Hazardous Polymerization: Will not occur

Conditions to Avoid: none documented

Incompatibles: strong acids

Decomposition Products: carbon monoxide, carbon dioxide

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SECTION VII - SPILL & DISPOSAL PROCEDURES

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Steps to be Taken in the Event of a Spill or Discharge

Wear self-contained breathing apparatus and full protective clothing. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

Disposal Procedure

Dispose in accordance with all applicable federal, state, and local environmental regulations.



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**SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT**

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Ventilation: Use general or local exhaust ventilation to meet TLV requirements.

Respiratory Protection: A respirator with dust/mist filter is recommended. If airborne concentration exceeds TLV, a self-contained breathing apparatus is advised.

Eye/Skin Protection: Safety goggles, uniform, apron, neoprene gloves are recommended.

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**SECTION IX - STORAGE AND HANDLING PRECAUTIONS**

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MSDS-T-DATA\* Storage Color Code: Blue (health)

Storage Requirements

Keep container tightly closed. Store in secure poison area.

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**SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION**

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Domestic (D.O.T.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)

International (I.M.O.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)  
 Marine Pollutants: No

R (I.C.A.O.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)

S. Customs Harmonization Number: 28369900008

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N/A = Not Applicable or Not Available  
N/E = Not Established  
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The information in this Material Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and the Canadian WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes.

Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, Baker cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. Baker warrants that this chemical meets the specifications set forth on the label. BAKER DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.

The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Baker will periodically revise this Material Safety Data Sheet.

Note: CHEMTREC, CANUTEC, and NATIONAL RESPONSE CENTER emergency telephone numbers are to be used ONLY in the event of CHEMICAL EMERGENCIES involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

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Approved by Quality Assurance Department.