Nickelous Carbonate

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

SECTION I - PRODUCT IDENTIFICATION

Product Name: Nickelous Carbonate
Common Synonyms: Nickel (II) Carbonate; Carbonic Acid, Nickel Salt; C.I. 77779
Chemical Family: Nickel Compounds
Formula: NiCO₃
Formula Wt.: 118.72
CAS No.: 3333-67-3
NIOSH/RTECS No.: QR6200000
Product Use: Laboratory Reagent
Product Codes: 2765, 2764, 5177

PRECAUTIONARY LABELING

BAKER SAF-T-DATA* System

HEALTH  FLAMMABILITY  REACTIVITY  CONTACT
3  0  0  3

Laboratory Protective Equipment

- GOGGLES
- LAB COAT
- VENT HOOD
- PROPER GLOVES

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.

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

SECTION II - COMPONENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Weight %</th>
<th>OSHA/PEL</th>
<th>ACGIH/TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickelous Carbonate</td>
<td>3333-67-3</td>
<td>99-100</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

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

SECTION III - PHYSICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity (H₂O=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility (H₂O)</td>
<td>Negligible (≤0.1%)</td>
</tr>
<tr>
<td>% Volatiles by Volume (21°C)</td>
<td>0</td>
</tr>
<tr>
<td>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>Odor Threshold (ppm)</td>
<td>N/A</td>
</tr>
<tr>
<td>efficient Water/Oil Distribution</td>
<td>N/A</td>
</tr>
<tr>
<td>Appearance &amp; Odor</td>
<td>Light green powder, Odorless.</td>
</tr>
</tbody>
</table>

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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.

T. ic Gases Produced
Carbon monoxide, carbon dioxide, nickel fumes

Explosion Data-Sensitivity to Mechanical Impact
None identified.

Explosion Data-Sensitivity to Static Discharge
None identified.

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value (TLU/TWA): 1 mg/m³
TLU is for Nickel, metal and insoluble compounds, as Ni.

Short-Term Exposure Limit (STEL): Not Established
Permissible Exposure Limit (PEL): 1 mg/m³
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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Tumorigenicity
This substance is listed as a NTP anticipated human carcinogen and an IARC probable human carcinogen (Groups 2A and 2B).

Productive 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

Immary 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)

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

Section VI - Reactivity Data

Stability: Stable
Hazardous Polymerization: Will not occur

Conditions to Avoid: none documented

Incompatibles: strong acids

Decomposition Products: carbon monoxide, carbon dioxide

Section VII - Spill & Disposal Procedures

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

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.

SECTION IX - STORAGE AND HANDLING PRECAUTIONS

Storage Color Code: Blue (health)

Storage Requirements: Keep container tightly closed. Store in secure poison area.

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

Domestic (D.O.T.)

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

International (I.M.O.)

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

Marine Pollutants: No

R (I.C.A.Q.)

Oper 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

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 the 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.