SAFETY DATA SHEET: NICKEL CARBONATE

1. IDENTIFICATION

Product Name: NICKEL CARBONATE
Synonyms: Nickel hydroxide carbonate; Nickel (II) carbonate
Formula and Formula Weight: Ni3(OH)4CO3 xH2O  304.11
Integra numbers beginning with: N724.10; N724.50
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

INTEGRA Chemical Company
24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000

2. HAZARDS IDENTIFICATION

OSHA Classification:

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Hazard Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity - Oral</td>
<td>4 Harmful if swallowed.</td>
</tr>
<tr>
<td>Acute Toxicity - Inhalation</td>
<td>4 Harmful if inhaled.</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>2 Causes skin irritation.</td>
</tr>
<tr>
<td>Sensitization - Respiratory</td>
<td>1 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</td>
</tr>
<tr>
<td>Sensitization - Skin</td>
<td>1 May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>2 Suspected of causing genetic defects.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>1A May cause cancer through inhalation.</td>
</tr>
<tr>
<td>Toxic to Reproduction</td>
<td>1B May damage the unborn child.</td>
</tr>
</tbody>
</table>

Signal Word: DANGER

Precautionary Statements

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust, fume, gas, mist, vapors, spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves, protective clothing, eye protection, face protection.
Wear respiratory protection.

Response

If swallowed: Rinse mouth. Call a poison center, doctor if you feel unwell.
If on skin: Wash with plenty of water.
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
If exposed or concerned: Get medical advice, attention.
Specific treatment (see first aid section on this label)
If skin irritation or a rash occurs: Get medical advice, attention.
If experiencing respiratory symptoms: Call a poison center, doctor.
Take off contaminated clothing and wash it before reuse.

Storage
Store locked up.

Disposal
Dispose of contents, container in accordance with all governmental regulations.

Hazard Not Otherwise Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Synonyms</th>
<th>CAS #</th>
<th>% Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel hydroxide carbonate</td>
<td>Nickel hydroxide carbonate</td>
<td>12607-70-4</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Inhalation:
Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is
5. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: Not available

Odor: Not available

Odor Threshold: Not available

pH: Not available

Partition Coefficient: n-octanol/water: Not available

Decomposition Temperature: Not available

Viscosity: Not available

Appearance: Light green powder

Melting/Freezing Point: Not available

Initial Boiling Point and Boiling Range: Not available

Flash Point: Not available

Evaporation Rate: Not available

Flammability: Not available

Flammable or Explosive: Upper: Not available

Limits (% by volume in air) Lower: Not available

Vapor Pressure: Not available

Vapor Density: Not available

Relative Density: Not available

Solubility: Insoluble in water

Partition Coefficient: n-octanol/water: Not available

Auto-Ignition Temperature: Not available

Decomposition Temperature: Not available

10. STABILITY AND REACTIVITY

OSHA SDS #: 25993 rev 101 4.21.2016 NICKEL CARBONATE
11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:
- **Inhalation**: Harmful if inhaled. Irritating to the upper respiratory tract and mucous membranes. May cause allergy or asthma symptoms or breathing difficulties.
- **Skin Contact**: Contact may cause skin irritation. May cause an allergic skin reaction, dermatitis, rash. Nickel is a contact allergen and sensitizer.
- **Eye Contact**: Contact may be irritating to the eyes.
- **Ingestion**: Harmful if swallowed. Ingestion may cause nausea, vomiting and gastrointestinal irritation.

Chronic Effects: 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.

Target Organs: Eyes, skin, respiratory system, lungs.

Additional Effects: May aggravate pre-existing skin conditions, respiratory conditions

Reproductive Effects: May damage the unborn child.

Carcinogenicity:
- Nickel hydroxide carbonate is listed by the NTP as Known Human Carcinogen [as Nickel Compounds] and by the IARC as Group 1, Known Human Carcinogen [as Nickel compounds].

Toxicity Data:
- **Nickel hydroxide carbonate**: LD50 (oral, rat) 840 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic Toxicity Data: No information available
Terrestrial Toxicity Data: No information available

Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility in soil: No information available
Other adverse effects: Very toxic to aquatic life with long lasting effects

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION

This product is a regulated material for domestic ground transportation, per CFR Title 49.

- **UN Number**: UN3077
- **Proper Shipping Name**: Environmentally hazardous substances, solid, nos (nickel carbonate)
- **Packing Group**: III
- **Hazard Class**: 9
- **Environmental hazards**: Marine pollutant
- **Special precautions**: No information available
- **Bulk transport**: No information available

15. REGULATORY INFORMATION

Nickel hydroxide carbonate is listed in the TSCA inventory and in SARA 313 (as nickel compounds).

16. OTHER INFORMATION


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

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***** END OF SDS *****