SDS 3390 Nickel Carbonate

Date of Issue: 06/05/2019 Expiry: 01/06/2024

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name **ECP Limited**

Address: 39 Woodside Ave, Northcote, Auckland , New Zealand

| | | |
|---|---|---|
| Emergency Tel: 0800 243 622 or .....0800 CHE M CA LL | **Tel** +64 9 480 4386 | **FAX** +64 9 480 4385 |

| **Product** | Nickel Carbonate | | | | **Code** | 3390 |
|---|---|---|---|---|---|---|
| **CAS#** | **HSNO#** | **UN #** | **DG Class/es** | **Packing group #** | **Tracking?** | **Handlers Certificate?** |
| 958638-02-3 | HSR007428 | 3077 | 9 | III | No | No |

**Recommended use:** Laboratory Investigations

**2. Hazards identification**

2.1 Classification of the substance or mixture

Carcinogenicity, Inhalation (Category 1A), H350i

Acute toxicity, Inhalation (Category 4), H332

Acute toxicity, Oral (Category 4), H302

Skin sensitisation (Category 1), H317

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

Reproductive toxicity (Category 1B), H360D

Germ cell mutagenicity (Category 2), H341

Specific target organ toxicity - repeated exposure (Category 1), H372

Skin irritation (Category 2), H315

Respiratory sensitisation (Category 1), H334

2.2 Label elements

Pictogram  Signal word **Danger**

Hazard statement(s)

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H332 Harmful 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.

H360D May damage the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201 Obtain special instructions before use.

P261 Avoid breathing dust.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

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

Restricted to professional users.
2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**3. Composition/information on ingredients**
3.1 Substances Formula: $CH_4Ni_3O_7 \cdot xH_2O$
Molecular weight: 304.12 g/mol

| Component | Classification | Concentration |
|---|---|---|
| [Carbonato(2-)]tetrahydroxytrinickel hydrate | | |
| | Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; Skin Sens. 1; Muta. 2; Carc. 1A; Repr. 1B; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H332, H315, H319, H334, H317, H341, H350i, H360, H372, H400, H410 M-Factor - Aquatic Acute: 10 | <= 100% |

**4. First aid measures**
4.1 Description of first aid measures
General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
In case of eye contact
Flush eyes with water as a precaution.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. Firefighting measures**
5.1 Extinguishing media
Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture
Carbon oxides, Nickel/nickel oxides
5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

**6. Accidental release measures**
6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**7. Handling and storage**
7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed.
7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Combustible solids, toxic

**8. Exposure controls/personal protection**
8.1 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment
Eye/face protection
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.
Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body Protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.
Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**9. Physical and chemical properties**
9.1 Information on basic physical and chemical properties
a) Appearance
Form: powder
Colour: light green

**10. Stability and reactivity**
10.2 Chemical stability
Stable under recommended storage conditions.
10.5 Incompatible materials
Strong acids.
10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions
Carbon oxides, nickel/nickel oxides.
Other decomposition products
No data available

**11. Toxicological information**
11.1 Information on toxicological effects
Acute toxicity
LD50 Oral - Rat - female - 840 mg/kg
Serious eye damage/eye irritation
Eyes - Rabbit
Result: Moderate eye irritation
Carcinogenicity
IARC: 1 - Group 1: Carcinogenic to humans
Reproductive toxicity
Presumed human reproductive toxicant
Specific target organ toxicity - repeated exposure
Inhalation - Causes damage to organs through prolonged or repeated exposure.
Additional Information
Gastrointestinal disturbance, lung irritation, dermatitis. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**12. Ecological information**
12.1 Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.2 Other adverse effects
Very toxic to aquatic life with long lasting effects.

**13. Disposal considerations**
13.1 Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.
Contaminated packaging
Dispose of as unused product

**14. Transport Information Table**

| | | **ADR/RID – European packaging certification** | **IMDG International Maritime Dangerous Goods Code** | **IATA – DGR International Air Travel Association – Dangerous Goods Regulations** |
|---|---|---|---|---|
| **14.1** | **UN Number** | 3077 | 3077 | 3077 |
| **14.2** | **UN Proper Shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| **14.3** | **Transport Hazard Class** | 9 | 9 | 9 |
| **14.4** | **Packaging group** | III | III | III |

| | | | | |
|---|---|---|---|---|
| **14.5** | **Environmental Hazards** | Yes | No | Yes |
| **14.6** | **Special precautions for user** | EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids. | | |

**15. Disclaimer**

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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