# CASWELL INC

# Safety Data Sheet
# Nickel Crystals

## SECTION 1: Identification

### 1.1 Product identifier

| | |
|---|---|
| Product name | Nickel Crystals |
| Product number | NC |
| Brand | Caswell |

### 1.4 Supplier's details

| | | |
|---|---|---|
| Name | Caswell Inc | PRODUCT SUPPLIED IN AUSTRALIA BY |
| Address | 7696 Route 31<br>Lyons, NY 14489<br>USA | CASWELL AUSTRALIA P/L<br>25 BIRCH COURT<br>WYNDHAM VALE 3024<br>VICTORIA |
| Telephone | 315 946 1213 | PHONE 03 9741 7103 |
| Fax | 315 946 4456 | EMERGENCY NUMBER **000** |
| email | sales@caswellplating.com | |

### 1.5 Emergency phone number(s)

Office Hours (9-4ET): 315 946 1213
24 Hour: CHEMTEL US# 1-800-255-3924 Intl# +01-813-248-0585

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

- Acute toxicity, oral (chapter 3.1), Cat. 4
- Sensitization, respiratory (chapter 3.4), Cat. 1
- Sensitization, skin (chapter 3.4), Cat. 1
- Germ cell mutagenicity (chapter 3.5), Cat. 2
- Carcinogenicity (chapter 3.6), Cat. 1A
- Toxic to reproduction (chapter 3.7), Cat. 2
- Specific target organ toxicity, repeated exposure (chapter 3.9), Cat. 1
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1

### 2.2 GHS label elements, including precautionary statements

**Pictogram**

| | |
|---|---|
| **Signal word** | **Danger** |

**Hazard statement(s)**

| | |
|---|---|
| H302 | Harmful if swallowed |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| H317 | May cause an allergic skin reaction |
| H341 | Suspected of causing genetic defects |
| H350 | May cause cancer |
| H361 | Suspected of damaging fertility or the unborn child |
| H372 | Causes damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |

**Precautionary statement(s)**

| | |
|---|---|
| P264 | Wash … thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell, |
| P330 | Rinse mouth. |
| P501 | Dispose of contents/container to … |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P284 | [In case of inadequate ventilation] wear respiratory protection. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P342+P311 | If experiencing respiratory symptoms: Call a POISON CENTER/doctor/... |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of water/... |
| P333+P313 | If skin irritation or a rash occurs: Get medical advice/attention. |
| P321 | Specific treatment (see … on this label). |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P405 | Store locked up. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P314 | Get medical advice/attention if you feel unwell. |
| P273 | Avoid release to the environment. |
| P391 | Collect spillage. |

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Hazardous components**

**1. NICKEL (II) SULFATE**

| | |
|---|---|
| Concentration | 70 - 80 % |
| EC no. | 232-104-9 |
| CAS no. | 7786-81-4 |
| Index no. | 028-009-00-5 |

- Carcinogenicity (chapter 3.6), Cat. 2
- Acute toxicity (chapter 3.1), Cat. 4
- Sensitization, respiratory (chapter 3.4), Cat. 1
- Sensitization, skin (chapter 3.4), Cat. 1

- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1

| | |
|---|---|
| H302 | Harmful if swallowed |
| H317 | May cause an allergic skin reaction |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| H351 | Suspected of causing cancer |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |

**2. Nickel (II) chloride**

| | |
|---|---|
| Concentration | 10 - 15 % |
| CAS no. | 7718-54-9 |

**3. Boric acid**

| | |
|---|---|
| Concentration | 3 - 5 % |
| CAS no. | 11113-50-1 |

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

| | |
|---|---|
| General advice | Consult a physician. Show this safety data sheet to the doctor in attendance. |
| If inhaled | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |
| In case of skin contact | Rinse with plenty of water. Get medical attention if irritation develops and persists. |
| In case of eye contact | Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur. |
| If swallowed | Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur. |

Personal protective equipment for first-aid responders
Refer to Section 8

### 4.2 Most important symptoms/effects, acute and delayed
Nickel Compounds may cause allergic rash (dermatitis)

## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.3 Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**
Refer to Section 8 for PPE.

**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**
Soak up with inert absorbent material (e.g. sand, silica gel). Keep in suitable, closed containers for disposal.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**
Keep container tightly closed in a dry and well-ventilated place.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

**1. NICKEL (II) SULFATE (CAS: 7786-81-4 EC: 232-104-9)**
TWA: 1 mg/m3 (OSHA)

**2. NICKEL (II) SULFATE (CAS: 7786-81-4 EC: 232-104-9)**
TLV®: 0.1 mg/m3 (ACGIH)

**8.2 Appropriate engineering controls**
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**8.3 Individual protection measures, such as personal protective equipment (PPE)**

**Pictograms**

**Eye/face protection**
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**
Wear chemical resistant gloves and clothing.

**Body protection**
Wear chemical resistant gloves and clothing.

**Respiratory protection**
NIOSH/MSHA approved air purifying respirator with an organic vapor cartidge or canister may be permissable under certain circumstances where airborne concentrations are expected to exceed exposure limits.

## SECTION 9: Physical and chemical properties

**Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance/form | Bright Green Crystals |
| Odor | No Data Available |
| Odor threshold | No Data Available |
| pH | No Data Available |
| Melting point/freezing point | No Data Available |
| Initial boiling point and boiling range | 220 deg F |
| Flash point | No Data Available |
| Evaporation rate | No Data Available |
| Flammability (solid, gas) | No Data Available |
| Upper/lower flammability limits | |
| Vapor pressure | No Data Available |
| Vapor density | No Data Available |
| Relative density | 2.07 |
| Solubility(ies) | Complete In Water |
| Partition coefficient: n-octanol/water | No Data Available |
| Auto-ignition temperature | No Data Available |
| Decomposition temperature | No Data Available |
| Viscosity | No Data Available |
| Explosive properties | No Data Available |
| Oxidizing properties | No Data Available |

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
Not reactive

**10.2 Chemical stability**
State

**10.3 Possibility of hazardous reactions**
No Data Available

**10.4 Conditions to avoid**
No Data Available

**10.5 Incompatible materials**
No Data Available

**10.6 Hazardous decomposition products**
Sulphur Oxides, Nickel, nickel oxides

## SECTION 11: Toxicological information

**Information on toxicological effects**

**Acute toxicity**
Oral LD50: 275 mg/kg (rat)

**Skin corrosion/irritation**
No Data Available

**Serious eye damage/irritation**
No Data Available

**Respiratory or skin sensitization**
No Data Available

**Germ cell mutagenicity**
No Data Available

**Carcinogenicity**
IARC: Group 1 Carcinogenic To Humans

**Reproductive toxicity**
No Data Available

**STOT-single exposure**
No Data Available

**STOT-repeated exposure**
No Data Available

**Aspiration hazard**
No Data Available

**Additional information**
Ingestion may cause gastrointestinal irritation, nausea, vomiting, diarrohea. Prolonged or repeated skin exposure can cause "nickel itch" dermatitis.

## SECTION 12: Ecological information

**Toxicity**
No Data Available

**Persistence and degradability**
No Data Available

**Bioaccumulative potential**
No Data Available

**Mobility in soil**
No Data Available

**Results of PBT and vPvB assessment**
No Data Available

**Other adverse effects**
Very toxic to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

**Disposal of the product**
Consult appropriate federal and local regulations for disposal. Empty containers are subject to the same regulations.

**Disposal of contaminated packaging**
Consult appropriate federal and local regulations for disposal. Empty containers are subject to the same regulations.

## SECTION 14: Transport information

**DOT (US)**
UN Number: UN3077
Class: 9
Packing Group: III
Proper Shipping Name: Environmentally Hazardous Substances, Solids, NOS (Nickel Sulfate)
Reportable quantity (RQ):
Marine pollutant:
Poison inhalation hazard:

**IMDG**
UN Number: UN3077
Class: 9
Packing Group: III
EMS Number:
Proper Shipping Name: Environmentally Hazardous Substances, Solids, NOS (Nickel Sulfate)

**IATA**
UN Number: UN3077
Class: 9
Packing Group: III
Proper Shipping Name: Environmentally Hazardous Substances, Solids, NOS (Nickel Sulfate)

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

**Massachusetts Right To Know Components**
Chemical name: Nickel sulfate
CAS number: 7786-81-4

**New Jersey Right To Know Components**
Common name: NICKEL SULFATE
CAS number: 7786-81-4

**California Prop. 65 components**
Chemical name: NICKEL (II) SULFATE
CAS number: 7786-81-4
05/07/2004 - Cancer

**Massachusetts Right To Know Components**
Chemical name: Nickel chloride
CAS number: 7718-54-9

**New Jersey Right To Know Components**
Common name: NICKEL CHLORIDE
CAS number: 7718-54-9

**Pennsylvania Right To Know Components**
Chemical name: Nickel chloride
CAS number: 7718-54-9

**California Prop. 65 components**
Chemical name: Nickel (II) chloride
CAS number: 7718-54-9
05/07/2004 - Cancer

**HMIS Rating**

| Nickel Crystals | |
|---|---|
| HEALTH | 3 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |
| PERSONAL PROTECTION | C |

**NFPA Rating**


## SECTION 16: Other information

**16.1 Further information/disclaimer**

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