

Safety Data Sheet Nickel Crystals SECTION 1: Identification

1.1 Product identifier

	Product name	Nickel Crystals
	Product number Brand	NC6C Caswell Australia
1.4	Supplier's details	
	Name Address	Caswell Australia 1 / 51 ELM PARK DRIVE HOPPERS CROSSING VICTORIA 3029
	Telephone	03 9741 7103
	email	sales@caswellplating.com.au
1.5	Emergency phone number(s)	000

Office Hours (9-4 AEST): 03 9741 7103

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 H317 H334 H351 H400 H410	Harmful if swallowed May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled Suspected of causing cancer Very toxic to aquatic life Very toxic to aquatic life with long lasting effects
2. Nickel (II) chloride Concentration CAS no.	10 - 15 % 7718-54-9
3. Boric acid Concentration CAS no.	3 - 5 % 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 fire	st-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 Odor Odor threshold pН Melting point/freezing point Initial boiling point and boiling range Flash point Evaporation rate Flammability (solid, gas) Upper/lower flammability limits Vapor pressure Vapor density Relative density Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity Explosive properties Oxidizing properties
- **Bright Green Crystals** No Data Available No Data Available No Data Available No Data Available 220 deg F No Data Available 2.07 **Complete In Water** No Data Available 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)

ΙΑΤΑ

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 HAZAR	0		
PERSONAL PROTECTION	С		

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

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