

CASWELL INC

Safety Data Sheet Electroless Nickel Plating Solution Part A

SECTION 1: Identification

1.1 Product identifier

1.4

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	Product name	Electroless Nickel Plating Solution Part A
	Product number Brand	ELECA Caswell
ŀ	Supplier's details	
	Name Address	Caswell Inc 7696 Route 31 Lyons NY 14489 USA
	Telephone Fax email	315 946 1213 315 946 4456 sales@caswellplating.com
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

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

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word	Warning
Hazard statement(s)	
H351	Suspected of causing cancer
H302	Harmful if swallowed
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317	May cause an allergic skin reaction
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container to
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.
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.
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.
P273	Avoid release to the environment.
P391	Collect spillage.

SECTION 3: Composition/information on ingredients

3.1 Substances

Hazardous components

1. NICKEL (II) SULFATE	
Concentration	45 %
EC no.	232-104-9
CAS no.	7786-81-4
Index no.	028-009-00-5

2. WATER OR OTHER NON-REPORTABLE INGREDIENTS				
Concentration	55 %			
CAS no.	7732-18-5			

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	If breathed in, move person into fresh air. If not breathing, give artificial respiration.	
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 and consult a physician.	
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.	
Personal protective equipment for first-aid responders		

Refer to section 8

4.2 Most important symptoms/effects, acute and delayed Compounds containing nickel can cause dermatitus and skin rash.

SECTION 5: Fire-fighting measures

- **5.1 Suitable extinguishing media** Use extinguishing media appropriate for surrounding fire.
- **5.2** Specific hazards arising from the chemical Thermal decomposition will form oxides of nickel and sulfur.
- **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** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- 6.2 Environmental precautions

Nickel compounds are damaging to aquatic life

6.3 Methods and materials for containment and cleaning up

SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Must be stored above 55 deg F.
- **7.2 Conditions for safe storage, including any incompatibilities** Keep container tightly closed and away from incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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

Eye/face protection

Face shield and safety glasses. 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

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., 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 N100 (US) or type P3 (EN 143) 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 such as NIOSH (US) or CEN (EU).

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.) Odor	Green Liquid
Odor threshold	
рН	3.5
Melting point/freezing point	55 deg F
Initial boiling point and boiling range	212 de g F
Flash point	-
Evaporation rate	
Flammability (solid, gas)	Not Flammable
Upper/lower flammability limits	
Vapor pressure	
Vapor density	
Relative density	1.34
Solubility(ies)	100% In Water
Partition coefficient: n-octanol/water	
Auto-ignition temperature	
Decomposition temperature	
Viscosity	
Explosive properties	
Oxidizing properties	

SECTION 10: Stability and reactivity

- 10.1 Reactivity Not reactive
- 10.2 Chemical stability Stable
- 10.4 Conditions to avoid Excess Heat
- **10.5** Incompatible materials Cyanides, Strong Alkalis

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity Oral LD50: 264 mg/kg

Skin corrosion/irritation Continued Exposure to nickel can cause nickel itch/dermatitus/skin rash.

Serious eye damage/irritation May cause eye irritation

Respiratory or skin sensitization May cause respiratory and skin sensitisation.

Germ cell mutagenicity Not known

Carcinogenicity Nickel compounds are a known carcinogen.

Reproductive toxicity Not known

STOT-single exposure Not known

STOT-repeated exposure Not known

Aspiration hazard Not known

SECTION 12: Ecological information

Toxicity Not known

Persistence and degradability

Not known

Bioaccumulative potential Not known

Mobility in soil Not known

Results of PBT and vPvB assessment

Not known

Other adverse effects Nickel compounds are damaging to the aquatic environment.

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) Not dangerous goods

IMDG Not dangerous goods

IATA Not dangerous goods

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

Pennsylvania Right To Know Components Chemical name: Sulfuric acid, nickel(2+) salt (1:1) CAS number: 7786-81-4

California Prop. 65 components Common name: NICKEL SULFATE CAS number: 7786-81-4

HMIS Rating

Electroless Nickel Plating Solution Part A



NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

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