

CASWELL INC

Safety Data Sheet Electroless Copper Part A

SECTION 1: Identification

1.1 Product identifier

Product name Electroless Copper Part A

Product number ELCUA
Brand Caswell

1.4 Supplier's details

Name Caswell Inc PRODUCT SUPPLIED IN AUSTRALIA BY

Address 7696 Route 31 CASWELL AUSTRALIA

Lyons, NY 14489 Factory 1, 51 Elm Park Drive Hoppers

USA Crossing

Victoria, 3029

 Telephone
 315 946 1213
 Phone 03 9741 7103

 Fax
 315 946 4456
 Emergency **000**

 email
 sales@caswellplating.com
 All hours 0427 70 80 90

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

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Acute toxicity, oral (chapter 3.1), Cat. 4
- Acute toxicity, inhalation (chapter 3.1), Cat. 4
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Eye damage/irritation (chapter 3.3), Cat. 2A
- Hazardous to the aquatic environment long-term hazard (chapter 4.1), Cat. 2

2.2 GHS label elements, including precautionary statements

Pictogram

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Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed
H332 Harmful if inhaled
H315 Causes skin irritation
H319 Causes serious eye irritation

H411 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.
P271 Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor/... if you feel unwell.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water/... P321 Specific treatment (see ... on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P273 Avoid release to the environment.

P391 Collect spillage.

SECTION 3: Composition/information on ingredients

3.1 Substances

Hazardous components

1. WATER

Concentration > 75 % CAS no. 7732-18-5

2. TRIETHANOLAMINE

Concentration 5 - 10 % CAS no. 102-71-6

3. Ethylenediaminetetraacetic acid tetrasodium salt

Concentration 1 - 5 % CAS no. 64-02-8

4. DIETHANOLAMINE

 Concentration
 1 - 5 %

 EC no.
 203-868-0

 CAS no.
 111-42-2

 Index no.
 603-071-00-1

5. COPPER SULFATE PENTAHYDRATE

Concentration 1 - 5 % CAS no. 7758-99-8

6. Sodium hydroxide liquid

 Concentration
 Not specified

 EC no.
 215-185-5

 CAS no.
 1310-73-2

 Index no.
 011-002-00-6

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial

respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap

and plenty of water. Consult a physician

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

If swallowed Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical

attention immediately if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed

Ingestion may be harmful or fatal. Symptoms include severe stomach and intestinal irritation, abdominal pain and vomiting of blood. Low blood pressure and shock may occur as a result of severe tissue damage.

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

6.2 Environmental precautions

Do not allow to enter sewer or open water

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

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Sodium hydroxide (CAS: 1310-73-2)

PEL (Inhalation): 2 mg/m3 (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

2. Sodium hydroxide (CAS: 1310-73-2)

PEL (Inhalation): (C) 2 mg/m3 (Cal/OSHA) OSHA Annotated Table Z-1, www.osha.gov

3. Sodium hydroxide (CAS: 1310-73-2)

REL (Inhalation): (C) 2 mg/m3 (NIOSH) OSHA Annotated Table Z-1, www.osha.gov

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

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

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 (physical state, color, etc.)

Blue Liquid

Odor

Amine

Odor threshold

pH alakline

Melting point/freezing point

Initial boiling point and boiling range 100 deg C Flash point 75 deg C CC

Evaporation rate

Flammability (solid, gas) None

Upper/lower flammability limits

Vapor pressure Vapor density

Relative density 1.1 g/cc Solubility(ies) Miscible

Partition coefficient: n-octanol/water

Auto-ignition temperature 207 deg C

Decomposition temperature

Viscosity

Explosive properties Oxidizing properties

SECTION 10: Stability and reactivity

10.2 Chemical stability

Stable

10.4 Conditions to avoid

Excess Heat, Flame

10.5 Incompatible materials

Alkalis, ketones, organic anhydrides, organic halides, strong acids, aldehydes, strong oxidizers

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Triethanolamine:

Oral LD50 Rat: 4.92 mL/kg

Skin LD50 Rabbit: > 20 mL/kg Eye Irritation: Mild, 10 mg (Rabbit)

Copper Sulfate:

Oral LD50 Human: 1.088 mg(hydrate/kg)

Oral LD50, Rat: 300mg/kg

Skin corrosion/irritation

Triethanolamine:

Skin LD50 Rabbit: > 20 mL/kg

Serious eye damage/irritation

Triethanolamine:

Eye Irritation: Mild, 10 mg (Rabbit)

Germ cell mutagenicity

Mutagenic effects have been observed on tests with human lymphocytes

Carcinogenicity

IARC-3: No

SECTION 12: Ecological information

Toxicity

Copper Sulfate is toxic to aquatic environments with long term 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)

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

New Jersey Right To Know Components

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Common name: TRIETHANOLAMINE

CAS number: 102-71-6

Pennsylvania Right To Know Components

Chemical name: Ethanol, 2,2'-nitrilotris-

CAS number: 102-71-6

Massachusetts Right To Know Components

Chemical name: Diethanolamine

CAS number: 111-42-2

New Jersey Right To Know Components

Common name: DIETHANOLAMINE

CAS number: 111-42-2

Pennsylvania Right To Know Components

Chemical name: Ethanol, 2,2'-iminobis-

CAS number: 111-42-2

Massachusetts Right To Know Components

Chemical name: Sodium hydroxide

CAS number: 1310-73-2

New Jersey Right To Know Components

Common name: SODIUM HYDROXIDE

CAS number: 1310-73-2

Pennsylvania Right To Know Components

Chemical name: Sodium hydroxide

CAS number: 1310-73-2

HMIS Rating

Electroless Copper Part A	
HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	С

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own

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