



CASWELL AUSTRALIA

## Safety Data Sheet Copy Cad/Zinc Part A

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### SECTION 1: Identification

#### 1.1 Product identifier

Product name	Copy Cad/Zinc Part A
Product number	ZNA
Brand	Caswell

#### 1.3 Recommended use of the chemical and restrictions on use

Zinc Electroplating

#### 1.4 Supplier's details

Name	Caswell Australia
Address	1 / 51 ELM PARK DRIVE HOPPERS CROSSING VICTORIA 3029
Telephone	03 9741 7103
email	sales@caswellplating.com.au

#### 1.5 Emergency phone number(s)      **0 0 0**

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### SECTION 2: Hazard identification

#### 2.1 Classification of the substance or mixture

- Acute toxicity, oral (chapter 3.1), Cat. 4
- Skin corrosion/irritation (chapter 3.2), Cat. 1B
- 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

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### Signal word

**Danger**

### Hazard statement(s)

H302  
H314  
H400  
H410

Harmful if swallowed  
Causes severe skin burns and eye damage  
Very toxic to aquatic life  
Very toxic to aquatic life with long lasting effects

### Precautionary statement(s)

P264  
P270  
P301+P312  
P330  
P501  
P260  
P280  
P301+P330+P331  
P303+P361+P353  
  
P363  
P304+P340  
P310  
P321  
P305+P351+P338  
  
P405  
P273  
P391

Wash ... thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell, Rinse mouth.  
Dispose of contents/container to ...  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Wash contaminated clothing before reuse.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor/...  
Specific treatment (see ... on this label).  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
Store locked up.  
Avoid release to the environment.  
Collect spillage.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

#### Hazardous components

##### 1. Zinc chloride

Concentration	30 - 50 % (Volume)
EC no.	231-592-0
CAS no.	7646-85-7
Index no.	030-003-00-2

##### 2. WATER OR OTHER NON-REPORTABLE INGREDIENTS

Concentration	50 - 70 % (Volume)
CAS no.	7732-18-5

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## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

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General advice	Corrosive. Harmful if swallowed. Affects cardiovascular system
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	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	See section 8

### 4.2 Most important symptoms/effects, acute and delayed

Skin and eye burns. May cause delayed death occurring from strictures of the esophagus and pylorus. Repeated skin contact can cause varying degrees of problems ranging from dermatitis to ulcerations. Repeated inhalation can cause occupational asthma.

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## 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

None

### 5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

See section 8

### 6.2 Environmental precautions

Hazardous to the environment. Do not allow runoff to enter environment.

### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

**1. Zinc chloride fume (CAS: 7646-85-7)**

PEL (Inhalation): 1 mg/m<sup>3</sup> (OSHA)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

**2. Zinc chloride fume (CAS: 7646-85-7)**

PEL (Inhalation): 1 mg/m<sup>3</sup>, (ST) 2 mg/m<sup>3</sup> (Cal/OSHA)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

**3. Zinc chloride fume (CAS: 7646-85-7)**

REL (Inhalation): 1 mg/m<sup>3</sup>, (ST) 2 mg/m<sup>3</sup> (NIOSH)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### 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)

##### 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

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

##### 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 cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

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### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Brown Liquid Slurry
Odor	Slight almond odor
Odor threshold	
pH	4
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	
Evaporation rate	Not available
Flammability (solid, gas)	Not flammable
Upper/lower flammability limits	
Vapor pressure	
Vapor density	Not available
Relative density	Not available
Solubility(ies)	Complete In Water

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Partition coefficient: n-octanol/water  
Auto-ignition temperature  
Decomposition temperature  
Viscosity  
Explosive properties  
Oxidizing properties

### Other safety information

Product does not contain Volatile Organic Compounds

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not reactive

### 10.2 Chemical stability

Stable

### 10.4 Conditions to avoid

Contact with incompatible materials.

### 10.5 Incompatible materials

Cyanides and sulfides. Powdered Zinc

### 10.6 Hazardous decomposition products

When heated to decomposition, toxic fumes or chlorine and zinc oxide may be emitted.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Toxic. May cause irritation or corrosion of the gastrointestinal tract with abdominal pain, nausea, vomiting. May cause delayed death occurring from strictures of the esophagus and pylorus.

#### Skin corrosion/irritation

Contact may cause skin burns.

#### Serious eye damage/irritation

Causes eye burns.

#### Respiratory or skin sensitization

Destructive to tissues of mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

#### Carcinogenicity

Not a carcinogen

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## SECTION 12: Ecological information

### Toxicity

Hazardous to the environment.

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### 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

Dispose of as unused product.

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### SECTION 14: Transport information

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

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### SECTION 15: Regulatory information

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

##### Massachusetts Right To Know Components

Chemical name: Zinc chloride

CAS number: 7646-85-7

##### New Jersey Right To Know Components

Common name: ZINC CHLORIDE

CAS number: 7646-85-7

##### Pennsylvania Right To Know Components

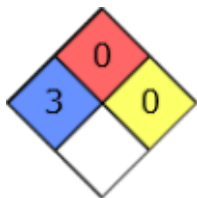
Chemical name: Zinc chloride

CAS number: 7646-85-7

#### HMIS Rating

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HEALTH	* 3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

#### NFPA Rating



### SECTION 16: Other information

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## **Safety Data Sheet**

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#### **16.1 Further information/disclaimer**

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