



CASWELL INC

Safety Data Sheet Brass Electroplating Solution

SECTION 1: Identification

1.1 Product identifier

Product name	Brass Electroplating Solution
Product number	BRSA1Q
Brand	CASWELL

1.2 Other means of identification

Plug N Plate Brass

1.3 Recommended use of the chemical and restrictions on use

Alkaline Brass Electroplating Solution

1.4 Supplier's details

Name	Caswell Inc
Address	7696 Route 31 Lyons, NY 14489 USA
Telephone	315 946 1213
Fax	315 946 4456
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 Int# +01-813-248-0585

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

- Skin corrosion/irritation (chapter 3.2), Cat. 3
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 3
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 4

2.2 GHS label elements, including precautionary statements

Pictogram

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Signal word

Warning

Hazard statement(s)

H314
H402
H413

Causes severe skin burns and eye damage
Harmful to aquatic life
May cause long lasting harmful effects to aquatic life

Precautionary statement(s)

P332+P313
P102
P202
P103
P273
P280
P305+P351+P338

P331
P402+P404
P501

If skin irritation occurs: Get medical advice/attention.
Keep out of reach of children.
Do not handle until all safety precautions have been read and understood.
Read label before use.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
Do NOT induce vomiting.
Store in a dry place. Store in a closed container.
Dispose of contents/container to ...

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. POTASSIUM HYDROXIDE liquid

Concentration < 5 %
EC no. 215-181-3
CAS no. 1310-58-3
Index no. 019-002-00-8

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

H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage

2. Copper powder

Concentration < 1 %
CAS no. 7440-50-8

3. 0

Concentration 94 %

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Trade secret statement (OSHA 1910.1200(i))

Specific Non Hazardous and Non Reportable Chemical Compounds and Percentages Have Been Omitted As A Trade Secret under OSHA 1910.1200(i)

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Corrosive to skin and mucous membranes.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and plenty of water. Get medical attention if symptoms occur.
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

not available

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Dry chemical, foam, carbon dioxide, water fog.

5.2 Specific hazards arising from the chemical

Contact with some metals, particularly magnesium, aluminum and zinc (galvanized) can rapidly generate hydrogen, which can be explosive.

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

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.

6.2 Environmental precautions

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Toxic To Aquatic Life. Avoid release to environment.

6.3 Methods and materials for containment and cleaning up

Do not allow to enter drains or water source.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

not available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Copper, Fume (as Cu) (CAS: 7440-50-8)

PEL (Inhalation): 0.1 mg/m³ (OSHA)

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

2. Copper, Fume (as Cu) (CAS: 7440-50-8)

PEL (Inhalation): 0.1 mg/m³ (Cal/OSHA)

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

3. Copper, Fume (as Cu) (CAS: 7440-50-8)

REL (Inhalation): 0.1 mg/m³ (NIOSH)

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

4. Copper, Dusts and mists (as Cu) (CAS: 7440-50-8)

PEL (Inhalation): 1 mg/m³ (OSHA)

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

5. Copper, Dusts and mists (as Cu) (CAS: 7440-50-8)

PEL (Inhalation): 1 mg/m³ (Cal/OSHA)

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

6. Copper, Dusts and mists (as Cu) (CAS: 7440-50-8)

REL (Inhalation): 1 mg/m³ (NIOSH)

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

8.2 Appropriate engineering controls

Avoid exposure.

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

Pictograms



Eye/face protection

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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.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) 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	Hazy Blue Liquid
Odor	Mild Musty
Odor threshold	not available
pH	13-13.5
Melting point/freezing point	not available
Initial boiling point and boiling range	220 deg F
Flash point	None
Evaporation rate	not available
Flammability (solid, gas)	not available
Upper/lower flammability limits	not available
Upper/lower explosive limits	not available
Vapor pressure	not available
Vapor density	not available
Relative density	1.19
Solubility(ies)	Complete in Water
Partition coefficient: n-octanol/water	not available
Auto-ignition temperature	not available
Decomposition temperature	not available
Viscosity	not available
Explosive properties	
Oxidizing properties	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not Reactive

10.2 Chemical stability

Material is Stable

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

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None

10.5 Incompatible materials

Strong Acids

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Not established

Skin corrosion/irritation

Not established

Serious eye damage/irritation

Not established

Respiratory or skin sensitization

Not established

Germ cell mutagenicity

Not established

Carcinogenicity

None

Reproductive toxicity

Not established

STOT-single exposure

Not established

STOT-repeated exposure

Not established

Aspiration hazard

Not established

SECTION 12: Ecological information

Toxicity

Harmful to aquatic life.

Persistence and degradability

Not established

Bioaccumulative potential

Not established

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Mobility in soil

Not established

Results of PBT and vPvB assessment

Not established

SECTION 13: Disposal considerations

Disposal of the product

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.

Disposal of contaminated packaging

Dispose of as unused product.

Waste treatment

Not established

Sewage disposal

Not established

SECTION 14: Transport information

DOT (US)

UN Number: UN1760

Class: 8

Packing Group: II

Proper Shipping Name: Corrosive liquid, NOS (Potassium Hydroxide)

Reportable quantity (RQ):

Marine pollutant:

Poison inhalation hazard:

Small Quantities may be shipped as LTD QTY.

IMDG

UN Number: UN1760

Class: 8

Packing Group: II

EMS Number:

Proper Shipping Name: Corrosive liquid, NOS (Potassium Hydroxide)

IATA

UN Number: UN1760

Class: 8

Packing Group: II

Proper Shipping Name: Corrosive liquid, NOS (Potassium Hydroxide)

SECTION 15: Regulatory information

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

Massachusetts Right To Know Components

Chemical name: Potassium hydroxide

CAS number: 1310-58-3

New Jersey Right To Know Components

Common name: POTASSIUM HYDROXIDE

CAS number: 1310-58-3

Pennsylvania Right To Know Components

Chemical name: Potassium hydroxide

CAS number: 1310-58-3

Massachusetts Right To Know Components

Chemical name: Copper

CAS number: 7440-50-8

New Jersey Right To Know Components

Common name: COPPER

CAS number: 7440-50-8

Pennsylvania Right To Know Components

Chemical name: Copper

CAS number: 7440-50-8

HMIS Rating

Brass Electroplating Solution	
HEALTH	* 3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

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 investigation to determine the suitability of information for their particular purposes. In no event shall Caswell Inc be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Caswell Inc has been advised of the possibility of such damages.