

Safety Data Sheet
Brass Electroplating Solution

SECTION 1: Identification

1.1 Product identifier

Product name	Brass Electroplating Solution
Product number	BRSA1Q
Brand	CASWELL

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 Intl# +01-813-248-0585

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture
- Skin corrosion/irritation (chapter 3.2), Cat. 3

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word

Warning

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Hazard statement(s)

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation
EUH401	To avoid risks to human health and the environment, comply with the instructions for use

Precautionary statement(s)

P332+P313	If skin irritation occurs: Get medical advice/attention.
P102	Keep out of reach of children.
P202	Do not handle until all safety precautions have been read and understood.
P103	Read label before use.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P402+P404	Store in a dry place. Store in a closed container.

2.3 Other hazards which do not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. POTASSIUM HYDROXIDE liquid

Concentration < 5 %

Other names / synonyms CAUSTIC POTASH; LYE; POTASSA; POTASSIUM HYDRATE; potassium hydroxide; Potassium hydroxide (K(OH)); POTASSIUM HYDROXIDE solution; POTASSIUMHYDROXIDE; UN 1813; UN 1814

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 %

Other names / synonyms COPPER;

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CAS no.	7440-50-8
3.0 Concentration	95 %
Other names / synonyms	WATER OR OTHER NON-HAZARDOUS OR REPORTABLE MATERIALS

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	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.

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.

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.

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

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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

8.3 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.

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	
pH	13-13.5
Melting point/freezing point	
Initial boiling point and boiling range	220 deg F
Flash point	None
Evaporation rate	

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Flammability (solid, gas)
Upper/lower flammability limits
Upper/lower explosive limits
Vapor pressure
Vapor density
Relative density 1.19
Solubility(ies) Complete in Water
Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity
Explosive properties
Oxidizing properties

SECTION 10: Stability and reactivity

10.2 Chemical stability

Material is Stable

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

None

10.5 Incompatible materials

Strong Acids

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Not established

Carcinogenicity

None

SECTION 12: Ecological information

Toxicity

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

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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.

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

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

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New Jersey Right To Know Components

Common name: COPPER

CAS number: 7440-50-8

Pennsylvania Right To Know Components

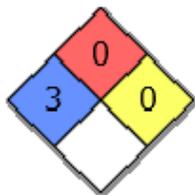
Chemical name: Copper

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.