

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

1.3 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

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;

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

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

Solubility(ies)

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

Explosive properties

Oxidizing properties

1.19

Complete in Water

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

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

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	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 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.



CASWELL INC

Safety Data Sheet Brass Plating Solution Part B

SECTION 1: Identification

1.1 Product identifier

Product name Brass Plating Solution Part B

Product number BRSB Brand Caswell

1.4 Supplier's details

Name Caswell Inc Address 7696 Route 31 Lyons, NY 14489

LICA

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

Not a hazardous substance or mixture.

2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Other hazards which do not result in classification

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

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3.1 Substances

Hazardous components

1. WATER

Concentration 99 - 99.5 % CAS no. 7732-18-5

2. DIPROPYLENE GLYCOL

Concentration 0.02 - 0.03 % CAS no. 25265-71-8

Trade secret statement (OSHA 1910.1200(i))

Specific chemical names and formulas have been omitted as a trade secret under OSHA 1910.1200.

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice Never give anything by mouth to an unconscious person. IF exposed or

concerned: Get medical advice/attention

If inhaled Assure fresh air breathing. Allow the victim to rest.

In case of skin contact Remove affected clothing and wash all exposed skin area with mild soap and

water, followed by warm water rinse.

In case of eye contact

Rinse immediately with plenty of water. Obtain medical attention if pain,

blinking or redness persist.

If swallowed Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Personal protective equipment for first-aid responders

na

4.2 Most important symptoms/effects, acute and delayed

na

4.3 Indication of immediate medical attention and special treatment needed, if necessary

na

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Any available

5.2 Specific hazards arising from the chemical

na

5.3 Special protective actions for fire-fighters

na

SECTION 6: Accidental release measures

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6.1 Personal precautions, protective equipment and emergency procedures

Use chemically protective clothing.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and materials for containment and cleaning up

Dike and contain the spill with sand.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in the original container in a cool, well ventilated place away from : incompatible materials. Keep container closed when not in use. Incompatible products: Oxidizing agent. Strong acids.

SECTION 8: Exposure controls/personal protection

8.2 Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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

Pictograms







Eye/face protection

Chemical goggles or safety glasses.

Skin protection

Wear protective gloves.

Body protection

na

Respiratory protection

na

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)
Odor

Odor threshold

Colorless liquid Odorless

na

pH	3.5-4.5
Melting point/freezing point	32 deg F
Initial boiling point and boiling range	212 deg
Flash point	na
Evaporation rate	na
Flammability (solid, gas)	na
Upper/lower flammability limits	na
Upper/lower explosive limits	na
Vapor pressure	na
Vapor density	na
Relative density	1-1.02
Solubility(ies)	na
Partition coefficient: n-octanol/water	na
Auto-ignition temperature	na
Decomposition temperature	na
Viscosity	na
Explosive properties	na
Oxidizing properties	na

SECTION 10: Stability and reactivity

10.1 Reactivity

None

10.2 Chemical stability

Not Established

10.3 Possibility of hazardous reactions

Not Established

10.4 Conditions to avoid

na

10.5 Incompatible materials

na

10.6 Hazardous decomposition products

None

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

LD50 oral rat 14850 mg/kg

Skin corrosion/irritation

Not Classified

Serious eye damage/irritation

Not Classified

Respiratory or skin sensitization

Not Classified

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity

na

STOT-single exposure

Not classified

STOT-repeated exposure

Not classified

SECTION 12: Ecological information

Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

Disposal of the product

Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.

Waste treatment

Avoid release to the environment.

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

Pennsylvania Right To Know Components

Chemical name: Propanol, oxybis-

CAS number: 25265-71-8

HMIS Rating

Brass Plating Solution Part B

HEALTH

1

FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	F

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.