

Safety Data Sheet
Plug N Plate Copper Solution

SECTION 1: Identification

1.1 Product identifier

Product name	Plug N Plate Copper Solution
Product number	PNPCS
Brand	Caswell

1.3 Recommended use of the chemical and restrictions on use

Metal Finishing

1.4 Supplier's details

Name	Caswell Inc	PRODUCT SUPPLIED IN
Address	7696 Route 31	AUSTRALIA BY
	Lyons, NY 14489	CASWELL AUSTRALIA
	USA	Factory 1, 51 Elm Park Drive Hoppers
		Crossing
Telephone	315 946 1213	Victoria, 3029
Fax	315 946 4456	Phone 03 9741 7103
email	sales@caswellplating.com	Emergency 000
		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

- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 2

2.2 GHS label elements, including precautionary statements

Pictogram



Hazard statement(s)

H411 Toxic to aquatic life with long lasting effects

Precautionary statement(s)

P273 Avoid release to the environment.

Safety Data Sheet

Plug N Plate Copper Solution

P391
P501

Collect spillage.
Dispose of contents/container to ...

SECTION 3: Composition/information on ingredients

3.1 Substances

Hazardous components

1. Copper

Concentration < 4 % (Volume)
CAS no. 65357-62-2

2. WATER OR OTHER NON-REPORTABLE INGREDIENTS

Concentration 96 - 98 % (Volume)
CAS no. 7732-18-5

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact	Skin Protection: None required with normal household use. Industrial Setting: Protective gloves (for hands) and protective clothing are required where repeated or prolonged skin contact may occur.
In case of eye contact	Flush eyes with water as a precaution.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water.
Personal protective equipment for first-aid responders	See section 8

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

Avoid release into environment

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

Not a flammable material

SECTION 6: Accidental release measures

Safety Data Sheet

Plug N Plate Copper Solution

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Do not let product enter drains.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from strong oxidizers and acids

SECTION 8: Exposure controls/personal protection

8.2 Appropriate engineering controls

General industrial hygiene practice.

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

Eye/face protection

Eye/Face Protection: None required with normal household use. Industrial Setting: For splash protection, use chemical goggles. Eye wash fountain is recommended.

Skin protection

Skin Protection: None required with normal household use. Industrial Setting: Protective gloves (for hands) and protective clothing are required where repeated or prolonged skin contact may occur.

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

Distribution, Workplace and Household Settings: No special protective equipment required. Product Manufacturing Plant (needed at Product-Producing Plant ONLY): In case of insufficient ventilation wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	Blue Liquid
Odor	Mild, Musty
Odor threshold	
pH	9
Melting point/freezing point	
Initial boiling point and boiling range	218 deg F
Flash point	
Evaporation rate	As water

Safety Data Sheet

Plug N Plate Copper Solution

Flammability (solid, gas)
Upper/lower flammability limits
Vapor pressure
Vapor density
Relative density 1.35
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

10.1 Reactivity

Not reactive

10.2 Chemical stability

Stable

10.5 Incompatible materials

Strong oxidizers and acids

10.6 Hazardous decomposition products

CO, CO₂,

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Not Toxic

Skin corrosion/irritation

May irritate skin

Serious eye damage/irritation

May irritate eyes

Respiratory or skin sensitization

May irritate respiratory tract

Carcinogenicity

Not a Carcinogen

SECTION 12: Ecological information

Toxicity

Copper compounds are hazardous to the environment.

SECTION 13: Disposal considerations

Safety Data Sheet

Plug N Plate Copper Solution

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

Massachusetts Right To Know Components

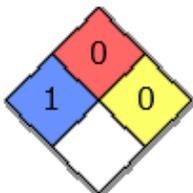
Chemical name: Copper

CAS number: 65357-62-2

HMIS Rating

Plug N Plate Copper Solution	
HEALTH	1
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,

Safety Data Sheet
Plug N Plate Copper Solution

consequential or exemplary damages, whatsoever arising, even if Caswell Inc has been advised of the possibility of such damages.