

Safety Data Sheet
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SECTION 1: Identification

1.1 Product identifier

Product name	Plug N Plate Copy Chrome Solution
Product number	PNPCC
Brand	Caswell

1.3 Recommended use of the chemical and restrictions on use

Metal Finishing Chemical

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

- Carcinogenicity (chapter 3.6), Cat. 1B
- Acute toxicity, oral (chapter 3.1), Cat. 4
- Sensitization, respiratory (chapter 3.4), Cat. 1
- Sensitization, skin (chapter 3.4), Cat. 1
- 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)

H350	May cause cancer
H302	Harmful if swallowed
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317	May cause an allergic skin reaction
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container to ...
P264	Wash ... thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell,
P330	Rinse mouth.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P284	[In case of inadequate ventilation] wear respiratory protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
P272	Contaminated work clothing should not be allowed out of the workplace.
P302+P352	IF ON SKIN: Wash with plenty of water/...
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.
P321	Specific treatment (see ... on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P273	Avoid release to the environment.
P391	Collect spillage.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. COBALT SULFATE HEPTAHYDRATE

Concentration	70 - 80 % (Weight)
CAS no.	10026-24-1

2. Cobalt (II) chloride

Concentration	20 - 30 % (Weight)
EC no.	231-589-4
CAS no.	7646-79-9
Index no.	027-004-00-5

- Carcinogenicity (chapter 3.6), Cat. 1B
- Acute toxicity (chapter 3.1), Cat. 4
- Sensitization, respiratory (chapter 3.4), Cat. 1
- Sensitization, skin (chapter 3.4), Cat. 1

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- 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

H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H350i	May cause cancer by inhalation.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

3. Boric acid

Concentration	5 - 10 % (Weight)
CAS no.	11113-50-1

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	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. 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	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Personal protective equipment for first-aid responders	See section 8

4.2 Most important symptoms/effects, acute and delayed

Cancer hazard. May cause skin irritation and rash. Dust may cause respiratory irritation

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Dry chemical, foam, carbon dioxide.

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.

Further information

Do not allow run off to enter sewer or water source

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear PPE described in section 8.

6.2 Environmental precautions

Do not allow to enter drains

6.3 Methods and materials for containment and cleaning up

Dike area to prevent runoff. Collect with absorbant and store in a tightly closed container for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation. dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. COBALT SULFATE HEPTAHYDRATE (CAS: 10026-24-1)

TWA (Oral): 0.1ppm (OSHA)

2. COBALT SULFATE HEPTAHYDRATE (CAS: 10026-24-1)

TLV® (Oral): 0.02ppm (ACGIH)

3. Cobalt (II) chloride (CAS: 7646-79-9 EC: 231-589-4)

TLV® (Oral): 0.02mg/m³

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

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.

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 cartidge 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	Purple Liquid
Odor	None
Odor threshold	
pH	na
Melting point/freezing point	32 deg F
Initial boiling point and boiling range	220 deg F
Flash point	
Evaporation rate	
Flammability (solid, gas)	Not Flammable
Upper/lower flammability limits	
Vapor pressure	
Vapor density	
Relative density	2.06
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

10.6 Hazardous decomposition products

Oxides of sulfur

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Oral LD50: 424mg/kg (Rat)

Skin corrosion/irritation

Irritating to skin.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Irritating to skin. May cause dermatitis with repeated exposures

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Carcinogenicity
Cancer Hazard (IARC)

STOT-repeated exposure
May Cause Dermatitis

SECTION 12: Ecological information

Toxicity
Not established, but contains chemicals known to cause harm to aquatic organisms.

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
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

California Prop. 65 components

Chemical name: COBALT SULFATE HEPTAHYDRATE

CAS number: 10026-24-1

06/02/2000 - cancer

HMIS Rating

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HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

NFPA Rating

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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.