Official PrintPlating SDS · Paint PP-SDS-PAINT-001 · PDF · All sheets

SAFETY DATA SHEET

OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012) · GHS Rev. 8
Document PP-SDS-PAINT-001 · Revision 2 · 25 August 2026 · Supercedes: Rev 1 (60 mL)

Manufacturer: PrintPlating · Saint Paul, MN 55117 · United States
Product: PrintPlating Conductive Copper Paint (4 fl oz / 118 mL refill and kit bottle)
Medical emergency (US): Poison Control 1-800-222-1222
Product questions: PrintPlating shop messages (Etsy / Amazon seller account)

Composition must match what you bottle. This SDS is written for a *water-based* copper-filled conductive coating (the usual class of hobby electroplating paint). PrintPlating is named as manufacturer/repacker. Before you ship, put the exact ingredient names and weight % from the SDS of the bulk paint you actually buy into Section 3. If your bulk paint is solvent-based (acetone, MEK, xylene, denatured alcohol as the main liquid), this SDS is wrong — use that supplier's SDS and relabel.

Section 1 — Identification

Product name	PrintPlating Conductive Copper Paint
Other names	Conductive copper coating; electroplating primer for plastics
SKU	PP-PAINT-4OZ (also packed in starter kit PP-KIT-001)
Recommended use	Brush-on conductive coating so PLA, resin, and other non-conductive parts can be copper electroplated / electroformed.
Uses advised against	Children's craft paint. Food-contact surfaces. Unventilated household rooms. Not a toy.
Supplier	PrintPlating, Saint Paul, MN 55117, USA

Section 2 — Hazard identification

Classified as hazardous under OSHA HCS 2012 on the basis of copper metal content (aquatic toxicity). Not classified flammable if the carrier is water.

WARNING

ENVIRONMENT
Aquatic 1

GHS class	Hazardous to the aquatic environment, acute Category 1 (H400) and chronic Category 1 (H410). May cause eye / skin irritation from binder or amines (see Section 3).
Hazard statements	H410 Very toxic to aquatic life with long lasting effects. H400 Very toxic to aquatic life.
Prevention	P273 Avoid release to the environment. P264 Wash hands after handling. P280 Wear gloves and eye protection.
Response	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. P391 Collect spillage. P302+P352 IF ON SKIN: Wash with soap and water.
Storage / disposal	P501 Dispose of leftover paint and rinse water as copper-bearing waste. Do not pour down household drains.

Other hazards	Dried film contains copper metal. Sanding a dried coat creates copper-containing dust. Liquid stains skin and clothes.

Section 3 — Composition / information on ingredients

Mixture. Typical water-based copper conductive coating (replace % with your bulk SDS):

Component	CAS	Typical weight %	Role / class
Water	7732-18-5	30–70	Carrier
Copper (powder / flake)	7440-50-8	15–45	Conductive pigment; Aquatic Acute/Chronic 1
Acrylic or polyurethane binder (trade secret)	proprietary	10–30	Film former
Additives (dispersant, amine, thickener)	various	<5	May include irritants; copy from supplier SDS

Exact percentages are a trade secret where allowed by 29 CFR 1910.1200(i), except as listed on the bulk supplier SDS. PrintPlating must keep that supplier SDS on file.

Section 4 — First-aid measures

- **Eyes:** Rinse with water for 15 minutes, eyelids open. Remove contact lenses if easy. Seek medical care if irritation continues.
- **Skin:** Wash with soap and water. Remove contaminated clothing. Paint stains; they are not a substitute for checking irritation.
- **Inhalation:** Move to fresh air. Spray mist or sanding dust: seek care if coughing or tightness develops.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Call Poison Control 1-800-222-1222. Copper-containing mixtures can cause GI symptoms.

Section 5 — Fire-fighting measures

Water-based mixture: not expected to sustain a fire as a liquid. Dried film can char. Use water, foam, CO_2, or dry chemical for surrounding fire. Cool closed bottles. Combustion of binder may emit CO, CO_2, nitrogen oxides, copper oxides. SCBA for interior firefighting.

Section 6 — Accidental release measures

Wear gloves and eye protection. Contain liquid. Wipe with inert absorbent. Do not flush to sewer. Place waste in a labeled container. Wash residue with a small amount of water into that same waste container, not into the sink.

Section 7 — Handling and storage

Adult workshop use. Stir before use. Brush in a ventilated area. Keep bottle closed. Store at 40–80 °F (5–27 °C); protect from freeze. Keep away from children and pets. Do not eat or drink while painting. Wash hands before touching food or eyes.

Section 8 — Exposure controls / personal protection

Limit (copper)	Value
OSHA PEL dusts/mists	1 mg/m^3 as Cu
OSHA PEL fume	0.1 mg/m^3 as Cu

PPE: nitrile gloves, safety glasses, clothing you can stain. If spraying or sanding dried coats, use a respirator with P100 / organic vapor as appropriate. Local exhaust preferred for spray.

Section 9 — Physical and chemical properties

Appearance	Opaque copper-brown liquid	Odor	Mild (water-based); not a solvent stench if the assumption in the banner holds
pH	Typically near-neutral to slightly alkaline (confirm on bulk SDS)	Boiling point	~100 °C (water carrier)
Flash point	Not expected (water-based)	Relative density	>1 (copper filled)
Solubility	Dispersible in water when wet; dried film is water-resistant	VOC	Confirm on bulk SDS

Section 10 — Stability and reactivity

Stable in a closed bottle. Avoid freeze/thaw. Incompatible with strong acids and oxidizers. Do not mix with other paints unless tested. Hazardous decomposition if burned: copper oxides, carbon oxides.

Section 11 — Toxicological information

Mixture not tested as a whole. Hazards are those of copper metal dispersion plus binder. Copper salts/dusts: GI distress if swallowed; respiratory irritation from dust/mist. Binder/additives may irritate eyes and skin. Not intended for ingestion or inhalation. No IARC classification of this mixture as a carcinogen; dried sanding dust should still be controlled.

Section 12 — Ecological information

Copper is very toxic to aquatic life. Do not discharge paint, brush rinse, or sanding slurry to storm drains or septic. Collect copper-bearing liquid as waste.

Section 13 — Disposal considerations

Liquid leftover and contaminated rags: hazardous or copper-bearing waste per local rules. Dried scrap on a print is an article on the part. Empty bottles: drain to waste container, not the sink.

Section 14 — Transport information

DOT / IATA / IMDG (water-based assumption)	Often not regulated as a flammable liquid. Still an environmentally hazardous mixture if copper % triggers Class 9 in your package size — confirm with the bulk SDS and your carrier. Do not ship as ordinary paint if the supplier SDS says otherwise.
UN number	Not assigned on this sheet until Section 3 is locked to the bulk formula. If regulated: typically UN3082 environmentally hazardous substance, liquid, n.o.s. (copper), Class 9, PG III.

Section 15 — Regulatory information

- TSCA: Copper is listed. Polymer binder: confirm on supplier SDS.
- SARA 313: Copper compounds may apply depending on %.
- Not a children's product. Not a pesticide.

Section 16 — Other information

NFPA (estimated, water-based): Health 1 · Flammability 0 · Instability 0. HMIS: 1 / 0 / 0 · PPE B (glasses + gloves).

Prepared for PrintPlating 4 fl oz (118 mL) paint and the paint bottle inside the starter kit. Update Section 3 the day you change bulk suppliers.
