SELECTIVE PLATING

Section 1 Identification

Product Name: Copper Plating on metallic strip substrate
General: Metal with Metal Additives
Formula: Cu
C.A.S.: 7440-50-8
Health: 0 Flammability: 0 Reactivity: 0
Hazard Scale: Least Slight Moderate High Extreme
0 1 2 3 4

Section 2 Hazard(s) Identification

Generally not hazardous in normal handling; however, good laboratory practices should always be used. Avoid long term exposure to skin or by inhalation of dusts formed during cutting/grinding/etc.

Section 3 Composition

Component	CAS #	%	Exposure Limits
Nickel Metal	744-501-8	99.99	OSHA PEL 2mg/mf
Plating Additive	N/A	N/A	N/A

Section 4 First Aid Measures

Skin - Mild Irritant; wash exposed area with soap and water. If irritation develops, seek medical attention.
Eyes - Mild Irritant; wash eyes exposed to dust with plenty of water for at least 15 minutes, lifting eyelids occasionally. Seek medical attention.
Inhalation - Irritant; remove to fresh air if exposed to excessive dust. If not breathing, give artificial respiration
Ingestion Wash out mouth with water. Induce vomiting if conscious. Seek medical attention. Never give anything by mouth to an unconscious person.

Section 5 Fire Fighting Measures

Fire Extinguisher Type: Foam, CO2, dry chemicals.
Fire/Explosion Hazards: Not flammable. Dusts at sufficient concentrations can form slight explosion hazard. Molten copper explodes on contact with water.
Fire Fighting Procedure: Wear self-contained eathing apparatus and protective clothing toprevent contact with skin and clothes.

Section 6 Accidental Release Measures

Sweep up and place in suitable containers for reclamation or later disposal per Federal, State, and Local regulations. Wear gloves & respiratory protection in the presence of dust, mist or fumes.

Section 7 Handling and Storage

Store in a cool, dry, well ventilated area. Keep away from heat and flame. Do not get dusts in eyes, on skin, or on clothing.

Section 8 Exposure Controls/ PPE

Respiratory Protection: NIOSH approved dust mask.
Hand Protection: Gloves to prevent skin exposure.
Eye Protection: Appropriate safety glasses/goggles.

Section 9 Physical & Chemical Properties

Melting Point: 1084°C(plating)
Boiling Point: 2595° C
Solubility in Water: Insoluble
Appearance: Reddish matte or bright finish over rigid or semi-rigid substrate

Section 10 Stability and Reactivity

Stability: Stable Materials to Avoid: Acetylene compounds, ammonia, ammonium chloride, ammonium hydroxide, ammonium nitrate, black liquor, 3-bromopropyne, chlorine (moist), chromic acid, copper chloride, copper nitrate, ethylene oxide, ferric chloride, ferric sulfate, hydrocyanic acid, hydrogen peroxide (>10%), hydrogen sulfide, lead acid, lime sulfur, mercury or its salts, nitric acid, picric acid, potassium cyanide, potassium dichromate, silver salts, sodium cyanide, sodium dichromate, sodium sulfide, sodium thiosulfate, sulfur (molten), sulfur chloride. Hazardous Decomposition Products: May produce an explosive reaction with: acetylene compounds, ammonium nitrate, 3-bromopropyne, ethylene oxide and lead acid. Above melting point metallic oxide fumes may be evolved. When welding and brazing, dust & fume may also be emitted. Metal machining

Section 11 Toxicological Information

Acute oral effects: Hazardous
Acute skin effects: Irritant
Acute inhalation effects: Hazardous
Second rank acute toxicitiy: No data available
Chronic effect: No data available
Mutagenicity: No data available
Next generation efferct (teratogenicity): No data available
Carcinogenicity: Not available
Other: No data available

Section 12 Ecological Information

Ecotoxicity: No data available
Soil mobility: No data available
Environmental absorption and degradation: No data available
D. Probable accumulation in animal bodies: No data available

Section 13 Disposal Considerations

Regulations on disposal management: Not regulated
Disposal method: Follow applicable regulations
Special notice on disposal: No particular notice

Section 14 Transport Information

Not regulated

Section 15 Regulatory Information

Regulations prescribed by Industrial Safety and Health Act: No data available
Regulations prescribed in other laws related to chemical matter management such as Hazardous Chemcal Matter Act: No data available
Regulations by other countries: No data available

Section 16 Other Information

Effects of overexposure, Acute and Chronic:
Edges of base material may cause cuts to unprotected skin, no other effects expected to skin. Prolonged inhalation of dust or fume may result in a benign pneumoconiosis, producing distinctive changes in the lungs with no apparent disability or complications.

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