

Section I Chemical Product and Company Identification

Product Identifier: Brass Engraved Die
General Use: Foil stamping or embossing
Company: Universal Engraving, Inc.
Address: 9090 Nieman Road
Overland Park, KS 66214 USA
Phone: +1 800 221 9059 or +1 913 541 0503
Emergency Contact Number: CHEMTREC – Available 24 hours/day, 7 days/week
Domestic North America: +1 800 424 9300
International: +1 703 527 3887

Section II Hazardous Ingredients / Identity Information

Hazardous Components	CAS No.	%	OSHA (PEL/TWA)	ACGIH TLV
Copper	7440-50-8	60–70	0.1 mg/m ³	0.2 mg/m ³
Zinc	7440-66-6	30–40	15 mg/m ³	10 mg/m ³
Tin	7440-31-5	<1	2 mg/m ³	2 mg/m ³
Lead	7439-92-1	<4	.05 mg/m ³	.05 mg/m ³

Section III Hazard Identification

Emergency Overview: Brass products in solid state do not present an inhalation, ingestion or contact hazard. However, operations such as melting, welding, sawing, brazing and grinding may result in overexposure and present a lead contamination hazard.

Routes of Entry: Inhalation and ingestion

HEALTH HAZARDS (Acute and Chronic)

Metal Fumes: Inhalation of excessive fume or dust concentrations may result in shiver, metal taste in mouth, headache, respiratory tract irritation and metal fume fever. Smoke is irritating to skin and eyes. Inhalation of lead oxide fumes can cause abdominal pains, constipation, headaches, weakness, muscle pain, loss of appetite, nausea, and vomiting.

Metal Dust: Mechanical irritation may result from an accumulation of dust particles in the eye. Product dust may contain lead

Section IV First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: Wash out mouth with water. Induce vomiting if conscious. Call a physician.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes.

Skin Contact: Immediately flush skin with large amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Wash hands before eating and smoking.

Section V Firefighting Measures

This product presents no fire or explosion hazard.

Flash Point: NA

Flammable Limits: NA

Auto-ignition Temperature: NA

Extinguishing Media: Foam, carbon dioxide (CO₂), dry chemicals. Dry sand or metal extinguishing powders

Unusual Fire and Explosion Hazards: NA

Section VI Accidental Release Measures

Personal Precautions: Wear gloves and approved respiratory protection if possibility of dust, mist and fume exposure exists.

Environmental Precautions: Brass-containing waste is normally collected for recycling. Should waste disposal be deemed necessary, follow Federal, State, or Local regulations.

Methods for Cleaning Up: Do not use compressed air for cleaning.

Section VII Handling and Storage

Do not breathe dust or smoke. Avoid activities that raise dust or smoke. Avoid contact with the eyes and skin. Wash hands thoroughly after handling. Store in a normal dry warehouse.

Section VIII Exposure Controls and Personal Protection

Occupational Exposure Controls: When handling molten brass, protective clothing against metal splashing, face shield, protective gloves and respirator if needed, must be used. Avoid ingestion and inhalation of dust and fumes. Do not eat, drink or smoke during use and wash hands before eating, drinking or smoking.

Respiratory Protection: Use NIOSH/MSHA approved dust respirator to avoid excessive inhalation of dust, fume or mist.

Hand Protection: Use protective gloves against melt splashing.

Eye Protection: Use safety glasses or face shield in exposure to dust, fume or mist and when handling melt.

Skin Protection: Protective clothing against melt splashing. Wear trouser legs outside boots to avoid melt entrance in the boots.

Section IX Physical and Chemical Properties

Boiling Point: NA

Melting Point: >1600° C

Appearance and Odor: Gold-colored metal

Relative Density: >8

Water solubility: NA

Section X Stability and Reactivity

Stability: Stable under normal handling conditions.
Incompatibility: None known
Hazardous Decomposition/By-Products: None known
Hazardous Polymerization: Will not occur

Section XI Toxicological Information

Dermal LD50: No data available
Oral LD50: No data available
Inhalation LC50: No data available
Sensitization: None known
Target Organs: Eyes, skin, lungs (dust)
Prolonged Toxicity: Prolonged or repeated exposure to brass fumes or dusts may result in exposure to lead
Carcinogenicity:

NTP	IARC	OSHA	ACGIH
Yes	Yes	Yes	Yes

Carcinogenicity Comment: IARC lists lead as probably carcinogenic to humans (2A).
 NTP lists lead as reasonably anticipated to be a human carcinogen.

Section XII Ecological Information

Ecotoxicity Effects: No data available

Section XIII Disposal Information

Disposal of Product: Recycle if possible. Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding disposal.

Section XIV Transport Information

	Proper Shipping Name	Class	UN-Number	Packaging Group
LAND TRANSPORT US DOT and Canadian TDG Surface Transportation:	Not regulated	Not regulated	Not regulated	Not regulated
SEA TRANSPORT IMDG:	Not regulated	Not regulated	Not regulated	Not regulated
AIR TRANSPORT ICAO/IATA:	Not regulated	Not regulated	Not regulated	Not regulated

Section XV Regulatory Information

- U.S. TSCA Inventory Status:** All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
- Canada DSL Inventory Status:** All ingredients of this product are listed or are excluded from listing on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.
- CERCLA/SARA Section 302:** Not listed
- SARA (311, 312) Hazard Class:** Immediate (acute) health hazard, delayed
- CERCLA/SARA Section 313:** **Copper** 7440-50-8 **Lead** 7439-92-1 **Zinc** 7440-66-6
- California Prop. 65:** This product is subject to the reporting requirements under California's Proposition 65.
- WHMIS Hazard Classification:** D.2.A

Section XVI Other Information

Universal Engraving, Inc. provides the information contained herein in good faith. It is believed to be correct. However it is not all-inclusive and should be used only as a guide. Individuals receiving this information must exercise their independent judgement in determining its appropriateness for a particular purpose. Universal Engraving, Inc. shall not be held liable for any damage resulting from handling or from contact with this product. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources.

- Abbreviations:** **PEL** Permissible Exposure Limit
TLV Threshold Limit Value
NA Not Applicable