



44239-9506

SAFETY DATA SHEET

1. IDENTIFICATION

Product Code: 24-1700 BRILLIANT COPPER LITHO/ETCHING INK
Recommended Use: For use in industrial installations

Manufacturer: Hanco Ink, LLC
 151 Stanley St.
 Elk Grove Village, IL 60007
 Phone: +1 847-952-1511
 Fax: +1 847-952-1515

Emergency Phone Number: +1 847-952-1511

2. HAZARD(S) IDENTIFICATION

Physical Hazard Classification: This product has no physical hazard classification according to the Globally Harmonized System (GHS).

Health Hazard Classification:

Label Elements:



Signal Word: Warning

Hazard Statements:

Contact may cause skin irritation.
 Contact may cause eye irritation.
 Contact may cause minor respiratory irritation.

Precautionary Statements:

Wear protective gloves/protective clothing.
 Wear protective eyewear.
 Avoid splashing/splattering.
 Use with adequate ventilation.

Hazards not otherwise classified: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Material or Component | CAS Number | % |
|-----------------------|------------|------|
| Trade Secret | N/A | 100% |

4. FIRST AID MEASURES

Inhalation: Remove subject to fresh air. If symptoms persist, seek medical attention.

Skin Contact: Wash immediately with soap and water for at least 15 minutes. If symptoms persist seek medical attention.

Eye Contact: Flush with copious amounts of water for at least 15 minutes while holding eyelids open. If symptoms persist, seek medical attention.

Ingestion: Seek medical attention. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

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| Suitable Extinguishing Media: | Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it may still be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid/paste. |
| Not Suitable: | No information available. |
| Specific Hazards: | Fire will produce dense black smoke. Exposure may cause a health hazard. May release carbon monoxide, carbon dioxide, nitrogen containing gases, hydrogen chloride, and other toxic fumes. Runoff from fire control may cause pollution. |
| Special Protective Equipment for Fire-Fighters: | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

6. ACCIDENTAL RELEASE MEASURES

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| Personal Precautions: | Ensure adequate ventilation. Avoid contact with the skin and eyes by wearing recommended personal protective equipment. Wash thoroughly after handling. |
| Protective Equipment: | Protective clothing, gloves, eyewear, appropriate safety shoes. |
| Emergency Procedures: | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. |
| Methods for Containment: | Contain spills immediately with spill socks and inert materials (sawdust/sand). |
| Methods for Cleanup: | Absorb with inert materials. Sweep or scrape up. Place in a container for proper disposal. Rinse affected area(s) with soap and water. Ensure runoff from cleanup is collected. |

7. HANDLING AND STORAGE

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| Precautions for Safe Handling: | Avoid contact with the skin and eyes by wearing recommended personal protective equipment. Ensure adequate ventilation. Avoid breathing vapors, mist, or dust. Do not eat, drink, or smoke in the work area. Wash thoroughly after handling. |
| Storage: | Keep container tightly closed and store in a cool, dry, well ventilated place. Keep out of direct sunlight. Keep away from food and drink. Open containers must be carefully resealed and kept upright. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store in accordance with local regulations. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------|
| Exposure Controls: | | | |
| | Component | OSHA PEL | ACGIH TLV |
| | Manganese Compound | (C) 5 mg/m ³ | 0.02 mg/m ³ (resp.) 0.1 mg/m ³ (IHL) |
| | Cobalt | 0.1 mg/m ³ | 0.02 mg/m ³ |
| Engineering Controls: | Local exhaust ventilation or other engineering controls may be required when handling or using this product to avoid overexposure. Ventilation should effectively remove and prevent the buildup of any vapor/mist/fume generated from handling this product. | | |
| Respiratory Protection: | No protective equipment is needed under normal conditions of use. If exposure limits are exceeded or irritation is experienced, additional ventilation or respiratory protection may be required. | | |
| Eye Protection: | Full coverage safety glasses/goggles are recommended. | | |
| Skin and Body Protection: | Wear chemical resistant gloves/protective clothing. Clean and inspect gloves and clothing regularly. | | |
| Hygiene Practices: | Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Launder contaminated clothing before reuse. | | |
| Special Requirements: | No special requirements under normal conditions of use. | | |

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Physical State: | Liquid |
|------------------------|--------|

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|-------------------------------------------|----------------------------|
| Color: | Varies |
| Odor: | Mild resinous |
| Odor Threshold: | no data available |
| pH: | no data available |
| Melting Point: | no data available |
| Freezing Point: | no data available |
| Initial Boiling Point: | no data available |
| Boiling Range: | no data available |
| Flash Point: | greater than 200 degrees F |
| Evaporation Rate: | no data available |
| Flammability: | no data available |
| Upper/Lower Flammability: | no data available |
| Vapor Pressure: | no data available |
| Vapor Density: | no data available |
| Relative Density/Specific Gravity: | 1.20 |
| Solubility: | Insoluble in water |
| Partition Coefficient: | no data available |
| Auto-ignition Temperature: | no data available |
| Decomposition Temperature: | no data available |
| Viscosity: | no data available |
| VOC % by Weight: | 21.93 |

10. STABILITY AND REACTIVITY

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|--------------------------------------------|------------------------------------------------------------------------------------------------------|
| Reactivity: | no data available |
| Chemical Stability: | Stable under suggested/recommended storage conditions. |
| Possibility of Hazardous Reactions: | Will not occur under suggested/recommended storage conditions. |
| Conditions to Avoid: | When exposed to high temperatures may produce hazardous decomposition products. |
| Incompatible Materials: | Strong oxidizing agents. |
| Hazardous Decomposition Products: | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

11. TOXICOLOGICAL INFORMATION

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| Likely Routes of Exposure: | no data available |
| Symptoms: | no data available |
| Effects From Exposure: | no data available |
| Numerical Measure of Toxicity: | no data available |
| Carcinogenicity: | no data available |

12. ECOLOGICAL INFORMATION

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|---------------------------------------|-------------------|
| Ecotoxicity: | no data available |
| Persistency and Degradability: | no data available |
| Bioaccumulative Potential: | no data available |
| Mobility in Soil: | no data available |
| Other Adverse Effects: | no data available |

13. DISPOSAL CONSIDERATIONS

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| Disposal Methods: | The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions, and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all the requirements of all authorities with jurisdiction. Waste packaging should be recycled where possible. This material and its container should be disposed of in a safe way in compliance with all regulations. Empty container or liners may contain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. |
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14. TRANSPORTATION INFORMATION

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|------------------------------------|----------------|
| UN Number: | not applicable |
| UN Proper Shipping Name: | not applicable |
| Effects From Exposure: | not applicable |
| Transport Hazard Class(es): | not applicable |
| Packaging Group: | not applicable |
| Environmental Hazards: | not applicable |
| Additional Information: | not applicable |

15. REGULATORY INFORMATION**FEDERAL REGULATIONS****TSCA (USA TOXIC SUBSTANCE CONTROL ACT)**

All Components listed

CALIFORNIA PROPOSITION 65:

This item does not contain any intentionally added materials listed in California Proposition 65.

STATE REGULATIONS

This product complies with the US Coalition of Northeast Governors (CONEG). The sum of heavy metals Lead, Cadmium, Mercury, and Hexavalent Chromium is less than 100 ppm.

16. OTHER INFORMATION**Revision Date:** 6/9/2020

The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. The information presented in this SDS is premised upon proper handling and anticipated uses and is for the material without chemical additions or alterations. We believe this information is up-to-date as of the date of publication and provide it in good faith, but make no warranty of any kind with respect to such information on this product.

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