

MATERIAL SAFETY DATA SHEET

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SECTION I

PRODUCT CLASS: Ink Drier
TRADE NAME: Liquid Cobalt Fountain Additive
PRODUCT NUMBER: D-4

SECTION II — HAZARDOUS COMPONENTS

| Component | CAS No | Wt. % | OSHA PEL | ACGIH TLV | Other |
|-------------------------|---------|-------|---------------------------|------------------------|-------|
| Cobalt Acetate (as Co)* | 71-48-7 | 2 | 0.1 mg/m ³ (1) | 0.05 mg/m ³ | |

(1) OSHA TABLE Z-1 regulates "cobalt metal fume and dust"

Under normal conditions this product will not give rise to free Cobalt metal fume or dust.

*This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40CFR 372.

SECTION III — PHYSICAL DATA

BOILING RANGE (°F): 200- 212
VAPOR DENSITY VS. AIR: Heavier
LIQUID DENSITY VS. WATER: Heavier
EVAPORATION RATE VS. BUTYL ACETATE: Slower
SOLUBILITY IN WATER: Completely Soluble
APPEARANCE: Violet Liquid
TYPE OF ODOR: Mild Acetic Acid
% VOLATILES, Wt.: 94 Max. (water)

SECTION IV — FIRE AND EXPLOSION DATA

FLAMMABILITY CLASSIFICATION

OSHA: Not Applicable **DOT:** Not Applicable **FLASH PT. (°F):** Not Applicable **LEL:** No Data
(Method used):

EXTINGUISHING MEDIA: Not Applicable

UNUSUAL FIRE AND EXPLOSION HAZARDS: When heated to decomposition, will emit acrid smoke and irritating fumes.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus should be used when firefighting in confined spaces.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: This product causes eye irritation and may cause skin and upper respiratory tract irritation. Overexposure to cobalt compounds may cause nose and throat irritations and an allergic skin rash. They are mildly irritation to the eyes, and if ingested, may cause vomiting, diarrhea, and a sensation of hotness. Excessive inhalation and/or ingestion of cobalt salts may affect kidneys, lungs and thyroid.

MEDICAL CONDITION PRONE TO AGGRAVATION BY EXPOSURE: Respiratory system conditions and skin diseases.

PRIMARY ROUTE(S) OF ENTRY: DERMAL

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation: Give oxygen. Remove to fresh air. Call physician.
Eyes: Flush with water for 15 minutes. Call physician.
Skin: Wash with soap and water.
Ingestion: Give 2 to 3 glasses of water, induce vomiting, consult a physician.

SECTION VI — REACTIVITY DATA

PRODUCT STABILITY: STABLE

CONDITIONS TO AVOID: STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VII — SPILL OR LEAK PROCEDURES

PROCEDURE WHEN MATERIAL SPILLED OR RELEASED: Flush into waste treatment unit with water.

WASTE DISPOSAL METHOD: Dispose of water-soluble product in accordance with Federal, State and Local regulations.

SECTION VIII — SPECIAL PROTECTION INFORMATION

VENTILATION: Use in well ventilated area. Keep air contaminant below OSHA PEL'S.

PROTECTIVE GLOVES: Required for prolonged or repeated contact.

RESPIRATORY PROTECTION: None required in normal usage.

EYE PROTECTION: Sufficient to protect from splashing.

OTHER PROTECTIVE EQUIPMENT: None.

SECTION IX — SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Keep containers closed when not in use. Keep away from excessive heat and strong oxidizing agents.

OTHER PRECAUTIONS: FOR INDUSTRIAL USE ONLY. DO NOT TAKE INTERNALLY. DO NOT REUSE CONTAINER FOR OTHER PURPOSES.

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