

Material Safety Data Sheet for Product Number 33702 - Printed Circuit Pen (Alkaline Soluble) - Blue

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Product Identification:

PRODUCT NAME: Printed Circuit Alkaline Soluble Red

OTHER NAMES: ER023

HMIS:

HEALTH: 2

FLAMMABILITY: 3

REACTIVITY: 0

PERS PROTECTION: C

Shipping Information:

UN ID UN 1263
DOT SHIPPING NAME (CLASS): Paint (3)
Containers <1 Pint is ORM-D

WHMIS (CANADA ONLY) B3
PACKING GROUP: II

Hazardous Ingredient(s):

Information on this Material Safety Data Sheets refers to inks or paints used in pens and markers; however, it applies to these inks or paints in bulk. The inks or paints are contained in capillary or valve reservoirs and will not spill or lead under normal conditions.

INGREDIENT	CAS REG. NUM	% WEIGHT	THRESHOLD LIMIT VALUE
Solvent Red 160	TSR#489909-5028-P-CH	10	1 mg/M ³
Propylene Glycol Methyl Ether	107-98-2	51	100 PPM/8 HR DAY
Resin	65997-05-9	31	15 mg/M ³
Diacetone Alcohol	123-42-2	8	50 PPM TWA

This product is in compliance with the EPA TSCA Inventory.

Physical Data:

BOILING POINT: LOW: 242.6°F (117°C) HIGH: 269.6°F (132°C)
SPECIFIC GRAVITY: <1.0 VISCOSITY: VAPOR PRESSURE: 3 mm Hg @ 25°C
% VOLATILE BY VOLUME: 60 VAPOR DENSITY: CA 4 EVAPORATION RATE: Slower than Ether
SOLUBILITY IN WATER: NIL VOC:
APPEARANCE: Thin Fluid with Aromatic Odor

Fire and Explosion Data:

FLASH POINT: 89°F TCC LEL: 0.01 UEL: 0.07
EXTINGUISHING MEDIA: Foam, CO₂, Dry Chemical, and Water Spray
UNUSUAL HAZARDS: NA SPECIAL PROCEDURES: NNR

Health Hazard Data:

LISTED AS POSSIBLE CARCINOGEN - NPT: NL IARC: NL OSHA: NL
IF YES:
SYMPTOMS OF OVEREXPOSURE: Headache, Dizziness, Nausea, Anesthesia, Coughing, Eye, Throat, and Irritation.
EFFECTS OF OVEREXPOSURE: Slight to severe irritation to eyes and mucous membranes of nose & throat. Dermatitis. Affects central nervous
PRIMARY ROUTES OF ENTRY: Ingestion, Dermal or Inhalation
EMERGENCY FIRST AID: Inhalation; Seek fresh air. Give artificial respiration if not breathing. Skin contact; Wash with copious water. Ingestion; Call

Reactivity Data:

STABILITY: Stable HAZARDOUS POLYMERIZATION: Not
CONDITIONS TO AVOID: Heat, Open Flame, and Sparks
INCOMPATIBILITY: Do not mix with strong oxidants
HAZARDOUS DECOMPOSITION: Carbon Monoxide, Carbon Dioxide, & Unidentified organic combustion products

Environmental Protection Procedures:

SPILL RESPONSE: Remove all ignition sources, ventilate area, and use absorbent material to clean spill.
DISPOSAL METHODS: Dispose of waste in accordance with local and federal regulations.
PROTECTIVE GEAR: NNR
ADDITIONAL MEASURES: Keep away from heat, fire and strong oxidants. Store in cool place (room temp.). Use adequate ventilation.
SPECIAL PRECAUTIONS: NA

* Free dust, not bound in paint/ink matrix.

NA = Not Applicable, NL = Not Listed, NNR = Not Normally Required, NE = Not Established

REVISION: JC-8/98

ADDITIONAL INFORMATION: Printed Circuit Alkaline Soluble Red