

Material Safety Data Sheet for Product Number 33902 - Printed Circuit Pen - Red

ITW Mark-Tex
565 Eagle Rock Ave
Roseland, NJ 07068

www.dykem.com/msds

Phone: (800) 222-0876
(973) 403-9890
Chemtrex: (800) 262-8200

Product Identification:

PRODUCT NAME: Printed Circuit Red

OTHER NAMES: ER228, ER288

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.

<u>INGREDIENT</u>	<u>CAS REG. NUM</u>	<u>% WEIGHT</u>	<u>THRESHOLD LIMIT VALUE</u>
Resin	68240-01-7	31	10 mg/M ³
Xylene	1330-20-7	10	100 PPM/8 HR DAY
Aromatic Hydrocarbon	64742-95-6	54	100 PPM/8 HRS PEL
Red Dye	Mixture	5	NE

This product is in compliance with the EPA TSCA Inventory.

Physical Data:

BOILING POINT: LOW: 280°F (138°C) HIGH: 350°F (177°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: 112°F TCC LEL: 0.01 UEL: 0.07
EXTINGUISHING MEDIA: Foam, CO₂, Dry Chemical, or 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 Red