

MATERIAL SAFETY DATA SHEET

Please become familiar with the Material Safety Data Sheet, as it is important for the user to understand the product. If further information is desired, consult professionals or reference studies in toxicology, fire prevention/suppression and ventilation.

FOR EMERGENCY CALL (314) 382-9881
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I. PRODUCT IDENTIFICATION

Product Name: **Multi-Puff, Multi-Density, Multi-Transfer & Multi-Suede Inks**
Product Number: All 105, 109 and 114 Series Colors
Chemical Name: Plastisols
Chemical Family: Polyvinyl Chloride Resin Dispersion
Molecular Weight: Mixture
Synonyms:

II. HAZARDOUS INGREDIENTS as defined in 29 CFR 1910.1200 (carcinogens identified with an asterisk*)

PRODUCT	COMPONENT	ACGIH TLV	PERCENT
M-Puff	No Hazardous Ingredients		
M-Transfer	p,p'-oxybis(benzenesulfonyl-hydrazide)		1-5%
M-Suede	No Hazardous Ingredients		
M-Density	No Hazardous Ingredients		

III. PHYSICAL DATA

Boiling Point @ 500^oF
Vapor Density (Air = 1) . . . @ 5.0
Vapor Pressure ... @70^oF. . . Essentially non-volatile
Specific Gravity ..@25^oF. . . 1.2 - 1.5
Water Solubility Negligible
VOC Content (g/l)Multi-Tech's M-Puff and M-Transfer series inks have less than 10 grams/liter VOC as calculated and tested.

IV. FIRE AND EXPLOSION DATA

Flash Point Greater than 400°F (C.O.C.)
Extinguishing Media Dry Chemicals (i.e. potassium sulfate, potassium chloride and mono ammonium phosphate), chemical foam, carbon dioxide, or water spray.
Special Fire Fighting A fire will produce hydrogen chloride and acrid fumes; therefore, full emergency equipment including a self-contained breathing apparatus should be used. Cold water should continuously be sprayed on exposed containers as the high temperatures can cause pressure to build up in drums and other closed containers.

HMIS Hazard Class: Health:1 Flammability:1 Reactivity:0 Protective Equipment:B

V. HEALTH AND SAFETY INFORMATION

HUMAN EFFECTS

Inhalation Respiratory tract irritation.
Skin Moderate skin irritation.
Eyes Severe eye irritation.
Ingestion Gastrointestinal irritation, diarrhea, nausea and vomiting.

VI EMERGENCY FIRST AID PROCEDURES

Inhalation Vacate area to area with good ventilation and with no further risk of exposure. Treat symptomatically.
Skin ContactThoroughly wash affected areas with soap and water. Remove contaminated clothing and wash clothing before reuse.
Eye ContactFlush eye with clean lukewarm water at low pressure for at least 15 minutes. Seek medical attention immediately.
Ingestion Consult physician immediately.

VII. EMPLOYEE PROTECTION RECOMMENDATIONS

Respiratory Protection If exposure is likely to exceed exposure limits, an appropriate NIOSH approved respirator for organic mist and vapor must be worn. (Section II) See OSHA regulations for respirator use (29CFR 1910.134).
Skin Protection Chemically resistant gloves should be worn when handling any chemicals. Wash thoroughly when through.
Eye Protection Wear safety goggles or glasses with side shields.
Ventilation The area must have good general ventilation. Local exhaust may also be needed to keep air contamination below recommended exposure levels.
Other Eyewash stations and safety showers should be readily available and clearly identified. Employees must be properly trained in the use of all safety equipment.

VIII. REACTIVITY DATA

Stability	Stable under normal conditions.
Polymerization	Hazardous polymerization will not take place.
Incompatibility	Materials to avoid: strong oxidizing agents.
Hazardous	Decomposition
Products	Hydrogen chloride, acetic acid, carbon monoxide, carbon dioxide by combustion.

IX. SPILL OR LEAK PROCEDURES

If material is spilled or released: Small spills can be wiped up with absorbent materials. Larger spills may be collected into drums and disposed of in compliance with federal, state and local environmental control regulations. Corrosive hydrogen chloride is generated if incinerated. Waste Disposal: see above.

X. SPECIAL PRECAUTIONS AND STORAGE DATA

Storage Temperature	Below 85° recommended.
Storage Conditions	Do not store near heat, flame, or strong oxidants.

XI. TRANSPORTATION REQUIREMENTS

D.O.T. Labels Required	None
D.O.T. Hazardous Classification	None. Non-hazardous
Hazardous Waste	No

NOTE: The information contained herein is based on information received from our suppliers and is believed to be correct. The user assumes responsibility for the product, as Multi-Tech has no control over its utilization. Updates to this MSDS will be made available, as more information is accessible to Multi-Tech.

Prepared by: Multi-Tech, Inc., MSDS Committee
Date: September 1, 2001
Supercedes: All previous
Changes: Add Multi-Suede and Multi Density products