

MULTI-TECH, INC.
Multi-Tech Non-Phthalate Textile Color Inks

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.

MULTI-TECH, INC.
FOR EMERGENCY, CALL (314) 382-9881

MULTI-TECH, INC.
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I. PRODUCT IDENTIFICATION

Product Name: All Multi-Tech Non-Phthalate Color Inks
Product Number: All Color Inks: MC, MCO, and HPO Series
Chemical Name: Plastisol - Mixture
Chemical Family: Pigmented Polyvinyl Chloride Resin Dispersion
Product Use: Industrial Textile Printing Applications

II. REGULATED INGREDIENTS

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>
	Plastisol*	
	Pigment Mixture*	

*Designated a "Trade Secret" - 29 CFR 1910.1200(i) and 1910.1200 Appendix D

III. PHYSICAL DATA

Boiling Point: 500°F
Vapor Density: (Air = 1) @ 5.0
Vapor Pressure: Essentially non-volatile 70°F
Specific Gravity: 1.2 - 1.5 at 25°F
Water Solubility: Negligible
Physical State: Very viscous semi-solid, many colors.

VOC Content (g/l) Multi-Tech's MC, MCO and HPO series of color inks have less than 20 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.

V. HEALTH AND SAFETY INFORMATION

This material has not been evaluated as a whole for health hazards. Except for the information provided in sections VII and IX, there is no evidence that the ingredient(s) could be released from the mixture in concentrations that would exceed an established OSHA permissible exposure limit, ACGIH Threshold Limit Value, or could present a health risk to employees.

HMIS HAZARD CLASS:

Health: 1
Flammability: 1
Reactivity: 0
Protective Equipment: B

PRIMARY ROUTES OF ENTRY:

Inhalation; Skin; Eyes; Ingestion;

SIGNS AND SYMPTOMS OF EXPOSURE:

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

MEDICAL CONDITIONS THAT CAN BE AGGRAVATED BY EXPOSURE:

None known

VI. EMERGENCY FIRST AID PROCEDURES

Inhalation:	Vacate area to area with good ventilation and with no further risk of exposure. Treat symptomatically.
Skin Contac:	Thoroughly wash affected areas with soap and water. Remove contaminated clothing and wash clothing before reuse. If skin irritation persists seek medical attention.
Eye Contact:	Flush 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:	None required under normal conditions. In the unlikely event that inhalable particulate or respirable dust is released, an appropriate NIOSH approved respirator must keep exposure levels below the OSHA PEL of 3.5mg/m ³ , OSHA TWA of 3.5mg/m ³ , and STEL of 7mg/m ³ . The dust produced is listed as a possible carcinogen by the IARC (2B). This listing <i>only</i> pertains to airborne, unbound particulate of respirable size. See OSHA 29 CFR 1910.134 for respirator use and Section IX for Hazardous Decomposition Products.
Skin Protection:	Chemically resistant gloves should be worn when handling any plastisol. Wash thoroughly when through.
Eye Protection:	Wear safety goggles or glasses with side shields.
Ventilation:	The area must have good general ventilation. Heat in areas with appropriate exhaust ventilation. Refer to sections IX and X.
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. REGULATED INFORMATION

US Regulations:

TSCA Status: All components are listed or exempt from the TSCA inventory.

EPA CERCLA: Not Applicable

SARA 302: Not Applicable

SARA 313: Not Applicable

IX. REACTIVITY

Stability: Stable under normal conditions.

Polymerization: Hazardous polymerization will not occur.

Incompatibility: Materials to avoid: strong oxidizing agents, strong acids, and open flame.

Hazardous Decomposition Products:

Hydrogen chloride, acetic acid, carbon monoxide, carbon dioxide by combustion. Degradation begins to occur (approximately) after one hour at 350-F, after 10 minutes at 400-F and in 5 minutes at 450-F.

X. 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.

XI. SPECIAL PRECAUTIONS AND STORAGE DATA

Storage Temperature: Below 83° recommended.

Storage Conditions: Do not store near heat, flame, or strong oxidants.

XII. TRANSPORTATION REQUIREMENTS

D.O.T. Labels Required: None

D.O.T. Hazardous Classification: None. Non-Hazardous

XIII. DISPOSAL CONSIDERATIONS

Product: Hazardous waste limits depend on the quantity of disposal and site regulations. Reuse and recycling is recommended. Always follow federal, state, and state regulations for proper waste classification, and disposal.

Packaging: Recycling is recommended. Always completely and thoroughly clean container of all plastisol ink residue. User is responsible for proper waste classification and disposal in accordance with federal, state, and local regulations.

XIV Other Information

The information contained herein is based on information received from our suppliers, and Multi-Tech believes the information is compliant with 29 CFR 1910.1200. The user assumes responsibility for the product, as Multi-Tech has no control over its utilization. The information herein provided is designed only as guidance for safe handling, use, storage, processing, transportation and disposal is not to be considered a warranty, expressed or implied. Updates to this MSDS will be made available, as more information is accessible to Multi-Tech.

Prepared by: Multi-Tech, Inc., MSDS Committee

Date: February 26, 2010

Supercedes: N/A

Revisions:

February 26, 2010 Origin