



QS-9000/ISO 9001 Registration #11666  
ISO 14001 Registration #116666B

Rutland Plastic Technologies, Inc.  
10021 Rodney Street  
Pineville, NC 28134



## MATERIAL SAFETY DATA SHEET

### 1. Chemical Product and Company Identification

**MANUFACTURING LOCATION:**

Rutland Plastic Technologies, Inc.  
10021 Rodney Street  
Pineville, NC 28134  
704/553-0046

**HAZARDOUS MATERIAL INFORMATION SYSTEM:**

<b>Health:</b>	<b>1</b>
<b>Flammability:</b>	<b>0</b>
<b>Reactivity:</b>	<b>0</b>
<b>Personal Protection:</b>	<b>A</b>

**IN CASE OF EMERGENCY CONTACT:** 704/553-0046

<b>PRODUCT NAME:</b>	Rutland Screen Printing Plastisol	<b>MSDS NUMBER:</b>	001
<b>CHEMICAL FAMILY:</b>	Polyvinyl Chloride Dispersion	<b>DATE REVISED:</b>	2/9/04
<b>PRODUCT CODE:</b>	All BD, CB, CC, CP, HD, HL, HS, LP, LX, MN M2, MA, MC, MG, MH, MS, MV, NA, NG, NM, NS, NW, RC, RF, TP, and SS Series Inks, LC4449, and FX8030.	<b>DATE PRINTED:</b>	3/10/04
<b>Exceptions:</b>	HD0138 (see MSDS #005) NM4201 (see MSDS #002) HD0177 (see MSDS #005) NG7182 (see MSDS #002) MA0221 (see MSDS #005) NS0035 (see MSDS #051) M29000 (see MSDS #004) NW9040 (see MSDS #004) MH0217 (see MSDS #007) TP0875 (see MSDS #051)		
<b>Samples:</b>	X03029, X03301, X03402, X03406, X03407, X04200, X04203, X04502, X04801, X05601, X05702, X09107		

### 2. Hazardous Ingredients

HAZARDOUS INGREDIENT	CAS #	% BY WEIGHT	TLV	PEL
None				

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Low hazard for normal industrial use.

**EYE CONTACT:** Low hazard for normal industrial use; however, any material that contacts the eye may cause mechanical irritation.

**SKIN CONTACT:** Low hazard for normal industrial use.

### 3. HAZARDS IDENTIFICATION (CONTINUED)

**INGESTION:** Not a likely route of exposure. Very low toxicity.

**INHALATION:** Not a problem at room temperature, but fumes formed at elevated temperatures can be irritating.

### 4. FIRST AID MEASURES

**EYES:** Flush with water for 15 minutes. If irritation develops, get medical attention.

**SKIN:** Wash with soap and water.

**INHALATION:** Remove to fresh air for relief.

**INGESTION:** None necessary for small quantities.

### 5. FIRE FIGHTING MEASURES

**FLASH POINT (° F):** >400 (COC)

**OSHA FLAMMABILITY CLASSIFICATION:** None

**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub>, Dry Chemical, or water mist.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self contained breathing apparatus.

**EXPLOSION LIMITS IN AIR - LOWER (%):** Unknown

**EXPLOSION LIMITS IN AIR - UPPER (%):** Unknown

**AUTO IGNITION TEMP (° F):** Unknown

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

### 6. ACCIDENTAL RELEASE MEASURES

**ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Dike to contain spill. Recover free product. Collect remaining product with absorbent materials.

### 7. HANDLING AND STORAGE

**HANDLING:** Wash thoroughly after handling.

**STORAGE:** Do not store near heat or flame. Material can gel with long exposure to elevated temperatures (Above 95° F.).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>ENGINEERING CONTROLS:</b>	Use with adequate ventilation.
<b>RESPIRATORY PROTECTION EQUIPMENT:</b>	Not necessary at room temperature.
<b>PROTECTIVE GLOVES:</b>	Usually not required.
<b>EYE AND FACE PROTECTION:</b>	Safety glasses recommended.
<b>OTHER PROTECTIVE EQUIPMENT:</b>	Usually not required.
<b>VENTILATION:</b>	Local exhaust as needed near processing equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Range/Point:</b>	Solidifies before boiling.
<b>Vapor Pressure:</b>	Unknown
<b>Vapor Density (AIR=1):</b>	>1
<b>Freezing Point:</b>	Not applicable
<b>Melting Point:</b>	Not applicable
<b>Physical State:</b>	Thick Liquid
<b>Color:</b>	All colors
<b>% Volatile by Weight:</b>	0.2%-4%
<b>VOC (g/l):</b>	2 - 50 g/l
<b>Evaporation Rate (Butyl Acetate=1):</b>	Unknown
<b>Specific Gravity @ 25° C:</b>	Dependent on product
<b>Weight per gallon:</b>	Dependent on product

## 10. STABILITY AND REACTIVITY

<b>STABILITY:</b>	Material is stable
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur.
<b>HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:</b>	CO, CO <sub>2</sub> , HCl.
<b>INCOMPATIBILITY (MATERIALS TO AVOID):</b>	None
<b>CONDITIONS TO AVOID:</b>	Storage temperatures above 95° F.

## 11. TOXICOLOGICAL INFORMATION

<b>CARCINOGENICITY:</b>	This product is not listed as a carcinogen by NTP, IARC, or OSHA.
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## 11. TOXICOLOGICAL INFORMATION (CONTINUED)

**ACUTE ORAL LD50:** Not available  
**ACUTE DERMAL LD50:** Not available  
**ACUTE INHALATION LC50:** Not available

## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** Unknown

**CHEMICAL FATE INFORMATION:** Unknown

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Small amounts may be fused in a vented oven and disposed of as a solid. Disposed material is not a listed RCRA Hazardous waste. Dispose of materials in accordance with the applicable Local, State, and Federal regulations.

## 14. TRANSPORT INFORMATION

**DOT SHIPPING NAME:** Not regulated  
**DOT HAZARD CLASS:** None  
**UN/NA NUMBER:** None  
**DOT PACKING GROUP:** None

**AIR FREIGHT TRANSPORTATION:** Not regulated  
**OCEAN TRANSPORTATION:** Not regulated

## 15. REGULATORY INFORMATION

**TSCA STATUS:** All components of these products are on the US TSCA Inventory.

**CALIFORNIA PROPOSITION 65:** These products are not known to contain any chemicals known to the state of California to cause cancer or birth defects; however, routine analysis for all listed materials is not conducted.

**SARA 302 EXTREMELY HAZARDOUS SUBSTANCES LIST:** None

**SARA (311,312) HAZARD CLASS:** None

**SARA SECTION 313 TOXIC CHEMICALS:** Some products covered by this MSDS contain Barium, Copper, or Zinc compounds. See attached lists for products and percentages.

**AUSTRALIAN INVENTORY CHEMICAL SUBSTANCES:**

Unknown at this time.

## 15. REGULATORY INFORMATION (CONTINUED)

**CANADIAN INVENTORY:** None

**EINECS REGULATIONS:** Unknown at this time

**JAPAN:** Unknown at this time

**KOREAN CHEMICAL INVENTORY:** Unknown at this time

## 16. OTHER INFORMATION

### **DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:**

All recommendations and statements made, if any, are based on Rutland's research and experience. However, since Rutland has no control over the conditions of use or storage of the product sold, Rutland cannot guarantee the results obtained through the use of its products. All products are sold and samples are given without any representation or warranty, expressed or implied, of fitness for any particular purpose or otherwise, and upon condition that the buyer shall determine the suitability of the product for its own purposes. This applies also where protective rights of third parties are involved. It does not release the user from the obligation to test the suitability of the product for the intended use and application.

## ADDENDUM to MSDS 1

The following products, Rutland® Screen Printing Plastisols contain compounds which are subject to the reporting requirements of the Superfund Amendments and Reauthorization Act of 1986 (Sara), Title III, Section 313:

### Barium Compounds 4-9.5% (1-2.4% as Barium, CAS #7440-39-3)

<u>BD</u>	<u>LX</u>	<u>MA</u>	MH6245	MH6329	<u>MS</u>
BD6446	LX6400	MA6295	MH6249	MH6333	MS6446
<u>CB</u>	LX6772	<u>MC</u>	MH6256	MH6334	<u>NA</u>
CB6446	<u>M2</u>	MC6255	MH6262	MH6336	NA6772
<u>CC</u>	M26120	<u>MH</u>	MH6270	MH6337	<u>NM</u>
CC6032	M26142	MH5084	MH6278	MH6346	NM5103
<u>HD</u>	M26153	MH6125	MH6279	MH6347	NM6016
HD6446	M26155	MH6217	MH6289	MH6349	NM6257
<u>HL</u>	M26189	MH6219	MH6300	MH6375	NM6345
HL6446	M26209	MH6220	MH6302	MH6485	NM6400
<u>HS</u>	M26212	MH6231	MH6304	MH6772	NM6446
HS6318	M26445	MH6232	MH6310	MH6889	<u>SS</u>
<u>LP</u>	M26446	MH6233	MH6312	MH7070	SS6446
LP6190	M26772	MH6236	MH6314	MH7078	
	M27046	MH6238	MH6320	MH7079	
		MH6241	MH6322	MH7098	
		MH6243	MH6326	MH7101	
				MH7102	
				MH7120	

### Copper Compounds 10-13.5% (9-13% as Copper, CAS #7440-50-8)

<u>HS</u>	<u>MH</u>	<u>NG</u>	<u>NM</u>	
HS4222	MH4127	NG4198	NM4012	NM7087
	MH4226	NG4779	NM4171	NM7876
	MH7086	NG4871	NM4221	
	MH7088	NG7876	NM4871	
			NM7085	

### Zinc Compounds 7-13% (2-4.5% as Zinc, CAS #7440-66-6)

<u>HS</u>	<u>MH</u>	<u>NG</u>	<u>NM</u>
HS4222	MH4127	NG4198	NM4012
	MH4226	NG4779	NM4171
		NG4871	NM4221
			NM4871

