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U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health Administration

Form Approved  
OMB No. 44-R1387

# MATERIAL SAFETY DATA SHEET

MS DS  
SENT TO  
SAFETY OFFICER  
DATE - 6/24/87

Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION I

MANUFACTURER'S NAME Mita Industrial Co., Ltd.		EMERGENCY TELEPHONE NO. JAPAN 06-761-1171
ADDRESS (Number, Street, City, State, and ZIP Code) 2-28 Tamatsukuri, 1-Chome, Higashi-Ku, Osaka, Japan		
CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS DC-122S = 131/132 TONER & DEVELOPER for DC-121 Series	
CHEMICAL FAMILY TONER: Pigmented Thermoplastic Polymer	FORMULA DEV: Mixtures of Metal Iron & Toner	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS Toner (RM-28)	3		BASE METAL Developer, Metal Iron	90	
CATALYST Organic Pigment			ALLOYS		
VEHICLE Styrene-Acrylate	92		METALLIC COATINGS		
SOLVENTS Co-Polymer			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS Toner	10	
OTHERS Carbon Black	5				
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (M <sub>2</sub> O=1) Toner: Developer:	1.12 4.95
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ = 1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR Fine Black Powder, Practically Odorless.			

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) Higher than 350 °C (by JIS-K-2265)	FLAMMABLE LIMITS N/A	✓	LeI	UeI
EXTINGUISHING MEDIA Water, Foam, Dry Chemical and CO <sub>2</sub> .				
SPECIAL FIRE FIGHTING PROCEDURES				
None				
UNUSUAL FIRE AND EXPLOSION HAZARDS				
None under normal storage and use conditions.				

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## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE Unknown

EFFECTS OF OVEREXPOSURE

Neither irritating, corrosive, volatile nor toxic.

EMERGENCY AND FIRST AID PROCEDURES

Normal washing with soap and water.

## SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATIBILITY (Materials to avoid) Nothing special.

HAZARDOUS DECOMPOSITION PRODUCTS Nothing special.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Clean up with a vacuum cleaner.

WASTE DISPOSAL METHOD This Developer and Toner is insoluble in water.

Do not flush to sewer. Route waste developer and toner for landfill.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Not required.

VENTILATION	LOCAL EXHAUST	Not required.	SPECIAL	Not required.
	MECHANICAL (General)	Not required.	OTHER	Not required.

PROTECTIVE GLOVES Not required. EYE PROTECTION Not required.

OTHER PROTECTIVE EQUIPMENT Gloves and dust filter respirator recommended when handling bulk amounts.

## SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Close cap tightly and store in a dry, cool and dark place. Do not store near combustibles or heat sources.

OTHER PRECAUTIONS

Avoid inhalation of dust.