

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

Form Approved  
OMB No. 44-R1387

# MATERIAL SAFETY DATA SHEET

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

BLACK DEVELOPER for DC-111, DC-111C,  
DC-113, DC-114, DC-142RE, DC-152Z, DC-1824

CHEMICAL FAMILY

Pigmented Thermoplastic Polymer & Ferrite

FORMULA

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS	0.4		BASE METAL Ferrite	95	5
CATALYST	-		ALLOYS	-	
VEHICLE	4.1		METALLIC COATINGS	-	
SOLVENTS	-		FILLER METAL PLUS COATING OR CORE FLUX	-	
ADDITIVES	-		OTHERS	-	
OTHERS	-				
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
NONE					

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H <sub>2</sub> O=1) Apparent Density	1.85
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Fine Black Powder, Partically Odorless		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Let	Uet
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.				

## 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 is insoluble in water. Do not flush to sewer.

Route waste developer 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. Wash skin with soap and water after contact.