

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 03-272-4111 |
| ADDRESS (Number, Street, City, State, and ZIP Code) 2-28 Tamatsukuri, 1-Chome, Kigashi-Ku, Osaka, Japan | | |
| CHEMICAL NAME AND SYNONYMS Pigmented thermoplastic polymer and metals | | TRADE NAME AND SYNONYMS Developer for DC-191/DC-312RE and DC-181R and DC-412RE and DC-1824 |
| CHEMICAL FAMILY Pigmented thermoplastic polymer and metals | | |

SECTION II - HAZARDOUS INGREDIENTS

| PAINTS, PRESERVATIVES, & SOLVENTS | % | TLV (Units) | ALLOYS AND METALLIC COATINGS | % | TLV (Units) |
|---|-----|-------------|--|----|-------------|
| PIGMENTS | 0.7 | | BASE METAL | 91 | 0 |
| CATALYST | - | | ALLOYS | - | |
| VEHICLE | 8.3 | | METALLIC COATINGS | - | |
| SOLVENTS | - | | FILLER METAL PLUS COATING OR CORE FLUX | - | |
| ADDITIVES | - | | OTHERS | - | |
| OTHERS | - | | | | |
| HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES | | | | % | TLV (Units) |
| None | | | | | |
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SECTION III - PHYSICAL DATA

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|--|-----------|--|------|
| BOILING POINT (°F.) | N.A. | SPECIFIC GRAVITY (H ₂ O=1) Absolute specific Gravity | 5.01 |
| 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

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|--|---------------------------------|-----|-----|
| FLASH POINT (Method used) Higher than 350°C | FLAMMABLE LIMITS N.A. | Lel | Uel |
| EXTINGUISHING MEDIA If product becomes involved in a fire, use CO₂. | | | |
| SPECIAL FIRE FIGHTING PROCEDURES Water, foam or dry chemical. | | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS None in normal storage and use conditions. | | | |

SECTION V - HEALTH HAZARD DATA

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| THRESHOLD LIMIT VALUE | 10mg/m ³ Total dust (Nuisance) |
| EFFECTS OF OVEREXPOSURE | Neither irritating, corrosive, volatile nor toxic. |
| EMERGENCY AND FIRST AID PROCEDURES | Normal washing with soap and water. |

SECTION VI - REACTIVITY DATA

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|--------------------------------------|----------------|---|---------------------|
| STABILITY | UNSTABLE | | CONDITIONS TO AVOID |
| | STABLE | X | |
| INCOMPATIBILITY (Materials to avoid) | | | |
| HAZARDOUS DECOMPOSITION PRODUCTS | | | |
| HAZARDOUS POLYMERIZATION | MAY OCCUR | | CONDITIONS TO AVOID |
| | WILL NOT OCCUR | X | |

SECTION VII - SPILL OR LEAK PROCEDURES

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| STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED | Sweep up or pick up by vacuum cleaner. |
| | Dust filter respirator required when TLV exceeded. |
| WASTE DISPOSAL METHOD | This Developer is insoluble in water. Do not flush to sewer. Route waste Developer for landfill or incineration. |

SECTION VIII - SPECIAL PROTECTION INFORMATION

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| RESPIRATORY PROTECTION (Specify type) | | | Normally not required. |
| VENTILATION | LOCAL EXHAUST | | SPECIAL OTHER |
| | MECHANICAL (General) | Normally not required. | |
| PROTECTIVE GLOVES | | Normally not required. | EYE PROTECTION |
| OTHER PROTECTIVE EQUIPMENT | | Gloves and dust filter respirator recommended when handling bulk amounts. | Normally not required. |

SECTION IX - SPECIAL PRECAUTIONS

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| PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING | Keep containers closed. Store in a cool, dry place. Do not store near combustibles or heat sources. |
| OTHER PRECAUTIONS | Avoid inhalation of dust. |