**MATERIAL SAFETY DATA SHEET**

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD 29CFR 1910.1200

MSE MICRO SOLUTIONS ENTERPRISES Choose Quality®

**EMERGENCY TELEPHONE NUMBER 1-(800)424-9300**

**DATE PREPARED 12/22/10** **SIGNATURE OF PREPARER (OPTIONAL)**

## SECTION 1 CHEMICAL PRODUCT / NAME

| | | |
|---|---|---|
| **Product/chemical name:** | **HP CP2025 Black** | **Part # 02-21-53014** |
| **CAS number:** | Mixture | |
| **Other designations:** | N/A | |
| **General use:** | Laser printer | |

## SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

| **Ingredient name:** | **CAS NUMBER** | **%** | | **OSHA PEL** | **ACGIH TLV** | **OTHER LIMITS** |
|---|---|---|---|---|---|---|
| Resin | 292629-36-8 | 80-90 | | | | |
| Wax | 9002-88-4 | 5-15 | | | | |
| Carbon Black | 1333-86-4 | 5-10 | | | | |
| | | | | | | |

NDA = NO DATA AVAILABLE

N/A = NOT APPLICABLE

## SECTION 3 HAZARDOUS IDENTIFICATION

| | | |
|---|---|---|
| **Primary entry routes:** | Skin, eye contact, and Inhalation | NFPA |
| **Target organs:** | None known | H 1 |
| **Acute effects:** | None known | F 1 |
| **Inhalation:** | Minimal irritation to the respiratory tract if exposed to large amounts of toner dust. | R 1 |
| **Eye:** | May cause slight irritation | PPE |
| **Skin:** | Unlikely to cause skin irritation | Sec.8 |
| **Ingestion:** | Ingestion is a minor route of entry for intended use. Low acute toxicity. | |
| **Carcinogenicity:** | Carbon Black is classified by the IARC as a Group B carcinogen (the substance is possibly carcinogenic to humans). Carbon Black in this preparation, due to its bound form, does not present this carcinogenic risk. | |
| **Long-term exposure:** | Accumulation of dust in the respiratory system may cause congestion | |
| **Chronic effects:** | If these materials are used in a manner that could generate airborne particles (dust), it is recommended that the dust be treated as a NUISANCE PARTICULATE according to the American Conference of Government Industrial Hygienists (ACGIH)(TLV=10mg/m$^3$) | |

## SECTION 4 FIRST AID MEASURES

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| **Inhalation:** | Move person to fresh air. If breathing is difficult, consult a physician. |
| **Eye contact:** | In case of contact immediately flush with plenty of low pressure water for at least 15 minutes. Remove any contact lenses to ensure thorough flushing. Do not rub eyes |
| **Skin contact:** | Wash affected area thoroughly with soap and water. If irritation persists, consult a physician |
| **Ingestion:** | Rinse mouth out with water. Drink one or two glasses of water. If symptoms occur, consult a physician |
| **Note to physicians:** | N/A |
| **Special precautions:** | N/A |

## SECTION 5 FIRE FIGHTING MEASURES

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| **Flash point and method:** | N/A |
| **Auto ignition temperature:** | Not determined |
| **Extinguishing media:** | Water, dry chemical, carbon dioxide or foam |
| **Unusual fire or explosion hazards:** | Toner is a combustible powder. Like most organic materials in powder form, it can form explosive mixtures when dispersed in air. |
| **Hazardous combustion products:** | Carbon Monoxide and Carbon dioxide |
| **Fire-fighting instructions:** | Avoid inhalation or smoke. Wear MSHA/NIOSH contained breathing apparatus |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

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| **Spill / leak procedures:** | Sweep or vacuum spilled toner and carefully transfer into sealable waste container. Sweep slowly to minimize generation of dust during cleanup. If vacuum is used, the motor must be rated at dust tight. A conductive hose bonded to the machine should be used to reduce static buildup (See sectionV). Residue can be removed with soap and cold water. Garments may be washed or dry cleaned after removal of loose toner. |
| **Environmental precautions:** | Do not flush into surface water or sanitary sewer systems. Dispose of waste material in accordance with local, state, and/or other federal regulations. |

## SECTION 7 HANDLING AND STORAGE

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| **Handling precautions:** | Keep containers closed when not in use. Handle and open containers with care. Use with adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Keep away from sources of heat, sparks, and open flames. |
| **Storage requirements:** | Store at room temperature in the original container. Keep container tightly closed and dry. Do not store with strong oxidizers. |

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits:**

| **ACGIH** | | | | | | |
|---|---|---|---|---|---|---|
| **Components** | CAS # | TWA # | | STEL | | Ceiling |
| Carbon Black | 1333-86-4 | 3.5 mg/m$^3$ | | not established | | not established |

| **OSHA** | | | | | | |
|---|---|---|---|---|---|---|
| **Components** | CAS # | TWA # | | STEL | | Ceiling |
| Carbon Black | 1333-86-4 | 3.5 mg/m$^3$ | | not established | | not established |

| **Exposure Guidelines:** | |
|---|---|
| **USA OSHA:** | TWA/PEL: 15 mg/m$^3$ (Total Dust), 5 mg/m$^3$ (Respiration Fraction) |
| **USA ACGIH:** | TWA/TLV: 10mg/m$^3$ (Inhalable Fraction), 3mg/m$^3$ (Respirable Particulate) |
| **United Kingdom:** | WEL: 10mg/m$^3$ (Inhalable Dust), 3mg/m$^3$ (Respirable Dust) |

**Personal Protective Equipment:**

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| **Eye/Face Protection:** | Wear dust resistant safety goggles if there is a danger of eye contact. |
| **Hands/Skin:** | Wear protective gloves to avoid direct contact. |
| **Respiratory Protection:** | Wear approved respirator for dust when exposure exceeds permissible limits. |
| **Additional Productive Measurements:** | Use in well ventilated area. Use engineering controls to reduce air contaminants to below permissible limits. |
| **Comments:** | Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, or applying cosmetics |

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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|---|---|---|---|
| **Physical state:** | | **Water solubility:** | Negligible |
| **Appearance and odor:** | Black fine powder Faint odor | **Other solubility's:** | Partial soluble in Toluene & Xylene |
| **Odor threshold:** | N/A | **Boiling point:** | N/A |
| **Vapor pressure:** | N/A | **Freezing/melting point:** | N/A |
| **Vapor density(air=1):** | N/A | **Viscosity:** | N/A |
| **Formula weight:** | N/A | **Refractive index:** | N/A |
| **Density:** | N/A | **Surface tension:** | N/A |
| **Specific gravity:** | ~1.3 | **%Volatile:** | N/A |
| **pH:** | N/A | **Evaporation rate:** | N/A |

## SECTION 10 STABILITY AND REACTIVITY

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| **Stability:** | Stable under normal conditions. |
| **Polymerization:** | Will Not Occur |
| **Chemical incompatibilities:** | N/A |
| **Conditions to avoid:** | Heat flames and other sources or ignition. Keep dust away from ignition sources |
| **Hazardous decomposition products:** | Carbon monoxide and carbon dioxide. |
| **Incompatible materials:** | Strong oxidizers. |

## SECTION 11 TOXICOLOGICAL INFORMATION

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| **Eye effects:** | Not classified as an eye irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC |
| **Sensitization:** | Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US) |
| **Acute inhalation effects:** | Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC. |
| **Acute oral effects:** | Tests on toners have indicated there is no evidence or acute oral toxicity: Swallowed-LD50 (rat)>2500mg/kg (i.e. practically non-toxic). U Ewers and D Nowak, Luft 66(2006), No5, 203-210. Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC. |
| **Chronic effects:** | No information available. |
| **Carcinogenicity:** | Carbon Black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Prop 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon Black is present only in a bound form in its preparation. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP, or OSHA. |
| **Mutagenicity:** | Non-mutagenic in Ames assay |
| **Reproductive Toxicity:** | Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop.65, and DFG Germany. |

*** See NIOSH,RTECS for additional toxicity data**

## SECTION 12 ECOLOGICAL INFORMATION

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| **Environmental fate:** | The product has not been tested for ecological effects |

## SECTION 13 DISPOSAL CONSIDERATIONS

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| **Disposal:** | Dispose according to federal, state, and local regulation |
| **Disposal methods:** | Collect spilled or waste product in tightly sealed containers. |

## SECTION 14 TRANSPORT INFORMATION

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|---|---|
| **DOT transportation data (49 CFR 172.101):** | |
| **US DOT:** | Not regulated as hazardous materials ( dangerous goods ) in transportation. |
| **ICAO/IATA:** | Not regulated as hazardous materials ( dangerous goods ) in transportation. |
| **IMO/IMDG:** | Not regulated as hazardous materials ( dangerous goods ) in transportation. |

## SECTION 15 REGULATORY INFORMATION

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|---|---|
| **EPA regulations:** | US EPA TSCA Inventory: All chemical substances in this product comply with all rules in orders under TSCA |
| **CERCLA hazardous substance:** | NONE |
| **CERCLA reportable quantity (RQ):** | NONE |
| **SARA 311/312 codes:** | NONE |
| **SARA toxic chemical (40 CFR 372.65):** | NONE |
| **SARA EHS (40 CFR 355):** | NONE |
| **State Regulations:** | Check your states regulations that may specifically list copy machine toner. All ingredients are listed on the TSCA inventory. |

## SECTION 16 OTHER INFORMATION

| | |
|---|---|
| **Prepared by:** | N/A |
| **Revision notes:** | N/A |
| **Additional hazard rating system:** | N/A |

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