**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 1/24/2011** | **SIGNATURE OF PREPARER (OPTIONAL)** |
|---|---|

## SECTION 1 CHEMICAL PRODUCT / NAME

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|---|---|---|
| **Product/chemical name:** | **HP 3600/3800 Black** | **02-21-70014** |
| **General use:** | Laser printer | |

## SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

| **Ingredient name:** | **%** | **CAS Number** | **HMIS** |
|---|---|---|---|
| Styrene Acrylate Copolymer | 70-90 | Trade Secret | |
| Wax | 5-15 | Trade Secret | H 0 |
| Carbon Black | 3-10 | 1333-86-4 | F 1 |
| Amorphous Silica | <5 | Trade Secret | R 0 |
| | | | PPE |

NO HAZARDOUS MATERIALS PRESENT

## SECTION 3 HAZARDOUS IDENTIFICATION

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| **Emergency Overview:** | This mixture is a fine Black powder with no or slight plastic-like odor. This mixture may cause irritation of the respiratory system, eyes, and skin. Like most organic powders, an explosion can occur if particles form thick clouds |
| **Acute Health Effects:** | |
| **Eye Contact:** | Irritation may occur by mechanical abrasion |
| **Skin Contact:** | Minimal skin irritation may occur |
| **Inhalation:** | Slight irritation of respiratory tract any occur with exposure to large amounts of toner dust |
| **Carcinogenocity:** | Carbon Black is listed by IARC as a group B (possibly carcinogenic to human), but this classification is based on rat "lung particle overload" studies. IARC monograph col. 93 states that no significant exposure to carbon black is thought to occur during the use of this product in which carbon black is bound to other materials such as rubber, printing ink, or paper Carbon Black in this mixture is in a bound form. |
| **Ingestion:** | Ingestion is an unlikely route of entry under normal conditions of use |

## SECTION 4 FIRST AID MEASURES

**Immediate medial attention may be required in the unlikely event of extreme inhalation, eye contact, or unusual reaction due to physical idiosyncrasy of the person**

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| **Inhalation:** | Provide fresh air immediately. If symptoms occur, seek medical advice. |
| **Skin Contact:** | Wash out particles with plenty of water and soap. If irritation develops, seek medical advice |
| **Eye Contact:** | Do not rub eyes. Immediately rinse with plenty of clean running water until particles are washed out. If irritation persists, seek medical advice. |
| **Ingestion:** | Clean mouth out with water. Drink several glasses of water. If sickness develops, seek medical advice |

## SECTION 5 FIRE FIGHTING MEASURES

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| **Suitable Extinguishing Media:** | Carbon dioxide, water, foam, dry chemical |
| **Special Exposure Hazards Arising From the Mixture Itself, Combustion Products, or Resulting Gases** | Toner, like most organic powders, is capable of creating a dust explosion when particles are dispersed. Carbon monoxide and carbon dioxide are hazardous resulting gases |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

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| **Personal Precautions:** | Avoid dust formation. Do not breathe dust. Wear personal protective equipment as described in section 8 |
| **Environmental Precautions:** | Do not discharge into drains |
| **Methods for Cleaning Up:** | Eliminate sources of ignition and flammables. Vacuum or sweep the material into a sealed container. If a vacuum is used, it must be dust explosion-proof. Dispose of the material in accordance with Federal/state/local requirements |

## SECTION 7 HANDLING AND STORAGE

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| **Handling Precautions:** | Keep out of reach of children. Avoid dust formation. Handle in adequately ventilated area. Do not breathe dust. Do not get in eyes or on skin. Keep away from excessive heat and sources of ignition such as sparks and open flames. Equipment should be electrically grounded before operation |
| **Storage:** | Keep out of reach of children. Keep container closed and store at room temperature. Keep away from excessive heat and sources of ignition such as sparks and open flames. Do not store with strong oxidizers |

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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| **Occupational Controls:** | Good general ventilation should be sufficient under normal conditions of use. Gloves are recommended. Protective goggles or safety glasses are recommended. Personal respiratory mask is not required under normal conditions but a respirator is needed in case of dust formation |
| **Environmental Controls:** | Not applicable |

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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| **Appearance:** | Fine Black powder | **Vapor Pressure:** | |
| **Odor:** | None or slight plastic | **Specific Gravity:** | 1.0 ~ 1.5 (water =1) |
| **pH:** | Not Applicable | **Solubility:** | Partially soluble in Toluene and Tetrahydrofuran |
| **Boling Point:** | Not Applicable | | |
| **Flash Point:** | Not Applicable | **Water Solubility:** | Negligible |
| **Flammability:** | Not Applicable | **Viscosity:** | Not Applicable |
| **Explosive Properties:** | Not Applicable | **Vapor Density:** | Not Applicable |
| **Oxidizing Properties:** | Not Applicable | **Evaporation Rate:** | Not Applicable |

## SECTION 10 STABILITY AND REACTIVITY

**This material is stable under normal conditions of use and storage. No hazardous polymerization will occur. No significant reaction will occur with air or water at room temperature.**

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| **Conditions to Avoid:** | Excessive heat & dust formation |
| **Materials to Avoid:** | Strong oxidizers, which could vigorously oxidize organic materials in this mixture and cause a fire in an extreme case |
| **Hazardous Decomposition Products:** | Carbon monoxide and carbon dioxide when combusted |

## SECTION 11 TOXICOLOGICAL INFORMATION

**According to our test results of this or similar mixture and the information provided by the suppliers about the substances contained in this mixture, seriously damaging effect is not expected when this mixture is treated in accordance with standard industrial practices and Federal/state/local requirements. Refer to section for potential health effects and Section 4 for first aid measures.**

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| **Oral:** | No test data available |
| **Inhalation:** | No test data available EU Directive 67/548/EEC |
| **Dermal:** | No test data available EU Directive 67/548/EEC |
| **Eye Irritation:** | No test data available |
| **Skin Irritation:** | No test data available |
| **Sensitization:** | No test data available EU Directive 67/548/EEC |
| **Chronic Toxicity:** | No test data available EU Directive 67/548/EEC |
| **Mutagenocity:** | Ames test Negative |
| **Carcinogenocity:** | No test data available EU Directive 67/548/EEC |
| **Reproductive Toxicity:** | No test data available EU Directive 67/548/EEC |

## SECTION 12 ECOLOGICAL INFORMATION

**According to our test results or this or similar mixture and the information provided by the suppliers about the substances contained in this mixture, this mixture is not expected to be harmful to ecology**

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| **Ecotoxicity:** | No data available |
| **Mobility:** | No data available |
| **Persistence and Degradability:** | No data available |
| **Bioaccumulative Potential:** | No data available |
| **Results of PBT assessment** | Not applicable |
| **Other Adverse Effects:** | None Known |

## SECTION 13 DISPOSAL CONSIDERATIONS

**This mixture may be land filled or incinerated in compliance with all Federal/state/local provisions. Do not dump this product into sewers, on the ground, or into any body of water.**

## SECTION 14 TRANSPORT INFORMATION

**Not a regulated material under the United States DOT, IMDG, ADR, RID, or ICAO/IATA.**

## SECTION 15 REGULATORY INFORMATION

**All substances in this mixture are listed or exempted in accordance with TSCA**

**Labeling according to EU Directive 67/548/EEC**

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| **R & S Phrases:** | Not required | **Hazard symbol:** | Not required |

## SECTION 16 OTHER INFORMATION

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