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 10/13/2010 | **SIGNATURE OF PREPARER (OPTIONAL)**

SECTION 1 CHEMICAL PRODUCT / NAME

Product/chemical name:	**HP 4600 Black**	**02-21-2014**
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**
Saturated Polyester Resin	Registered	80-95	N/A		N/A		
Carbon black	1333-86-4	2-10	3.5mg/m^3		3.5mg/m^3		
Polypropylene Wax	Registered	0.5-5	N/A		N/A		
Metal-Complex Dye	Registered	0.5-2	N/A		N/A		
Silica	Registered	0.5-4	N/A		N/A		
NO HAZARDOUS MATERIALS PRESENT							

SECTION 3 HAZARDOUS IDENTIFICATION

Primary entry routes:	Inhalation of dust and skin contact	HMIS
Hazardous Property:	None	H 0
Environmental impact:	None	F 1
GHS:	N/A	R 0
Signs and Symptoms of Exposure:	Irritation of eyes and respiratory tract may occurring heavy dust conditions	PPE
Medical Conditions Generally Aggravated by	None Known	

SECTION 4 FIRST AID MEASURES

Inhalation:	Remove from exposure Gargle with water
Eye contact:	Flush with water. If irritation persists, get medical attention
Skin contact:	Wash thoroughly with soap and water
Ingestion:	Dilute stomach contents with several glasses of water

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing media:	Water Fog, Foam, Dry Chemical, Co_2
Unusual fire or explosion hazards:	Like many finely divided materials, toner dust, in high concentrations can form an explosive mixture in air.
Fire-fighting instructions:	Avoid inhalation of smoke. Wear MSHA/NIOSH self contained breathing apparatus. Cool fire exposed containers with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Precaution for human:	When working, the protection tool such as the anti dust masks is used if necessary.
Precaution for environment:	The leakage to a sewer or river is prevented.
Prevention of second disaster:	Take up avoiding formation of dust.

SECTION 7 HANDLING AND STORAGE

Handling:	Vacuum or sweep up as with any other non-toxic powder.
Fire & Explosion Prevention:	Do not store next to strong oxidizers. Store in a cool, dry location. Eye protection and respirators ma be required for bulk handling.
Storage:	Avoid excessive exposure to heat.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation:	Local exhaust ventilation recommended
Respiratory protection:	None required when product is used as intended.
Protective gloves:	None required when product is used as intended.
Eye Protection:	None required when product is used as intended.
Protective Clothing:	None required when product is used as intended.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Color:	Black	**Water solubility:**	Insoluble
Appearance:	Black Powder	**Boiling point:**	N/A
Odor:	Faint	**Freezing/melting point:**	>100^{0}C
Vapor pressure:	N/A	**Evaporation rate:**	N/A
Vapor density(air=1):	N/A	**Explosive limits:**	LEL: N/A UEL: N/A
pH:	N/A	**Specific Gravity:**	1.0-1.5

SECTION 10 STABILITY AND REACTIVITY

Stability:	Stable
Polymerization:	This product will not polymerize
Chemical incompatibilities:	None with common materials with which the product may reasonably come in to contact
Conditions to avoid:	None
Hazardous decomposition products:	None

SECTION 11 TOXICOLOGICAL INFORMATION

Eye effects:	Not classified as irritant, according to Directive 67/548/EEC. (data from
Skin effects:	Not classified as irritant or skin sensitizer, according to Directive
Toxicity data:	Not harmful
Carcinogenicity:	None
Mutagenicity:	Ames test NEGATIVE

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

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:	IC_{50} (for algae 72h)/Pseudokirchnerella subcapita: IC_{50}.100mgL (data from similar toner)
Degradable:	No Data
Accumulation:	No Data

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal:	Dispose according to federal, state and local regulation.

SECTION 14 TRANSPORT INFORMATION

UN Number:	N/A						
UN Shipping Name:	N/A						
UN Classification:	N/A						
UN Packing Group:	N/A						
Marine Pollutant:	N/A						
Special Precautions:	The container is sealed up. Keep dry.						

SECTION 15 REGULATORY INFORMATION

All components are listed on TSCA Inventory (USA) and METI (Japan)

Labeling according to EU Directive 67/548/EEC

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

SECTION 16 OTHER INFORMATION

According to Directive 91/155/EEC	

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