

# Safety Data Sheet

SDS # : B-2024

## SmartCartridge

Issuing Date 2008-05-30

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Version 1

**Active**

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
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**Product Identifier**

**Product Name**  
**SmartCartridge** for **WorkCentre 4250, WorkCentre 4260, WorkCentre 4265**

**Part no.** 113R00755, 113R00776

**Color** Black  
**Pure substance/mixture** Mixture

**Relevant identified uses of the substance or mixture and uses advised against**

**Recommended Use** Xerographic printing

**Details of the supplier of the safety data sheet**

**Manufactured by** Xerox Corporation  
 Webster, NY 14580

**For further information, please contact**

**Contact person** Manager, Environment, Health, Safety & Sustainability  
**E-mail address** askxerox@xerox.com  
**Emergency telephone** Safety Information US: (800) 275-9376  
 Chemical Emergency only (Chemtrec) (800) 424-9300

2. HAZARDS IDENTIFICATION
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**Classification of the substance or mixture**

**Customer use / Cartridges and sealed bottles**

**OSHA Hazard Classification** This product is an article which contains a mixture / preparation in powder form. Safety information is given for exposure to the article as sold and used by the customer. Intended use of the product is not expected to result in exposure to the mixture / preparation based on the packaging and method of dispensing.

While this material is not considered hazardous by the OSHA hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information for the safe handling and proper use of the product. This SDS should be retained and made available to employees and other users of this product.

**Label elements**

**Signal Word** None  
**Hazard Statements** None required

**Precautionary Statements**      None required

**Other hazards**

No hazard expected under normal conditions of use

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Mixtures**

This product contains a photoreceptor

Chemical Name	CAS No.	Weight %	Classification (Reg. 1272/2008)	Hazard Statements
Frits	Proprietary	<95	--	--
Polyester resin	213077-22-6	<5	--	--
Carbon black	1333-86-4	<2	--	--

**4. FIRST AID MEASURES**

**Description of first-aid measures**

**General advice**      For external use only. When symptoms persist or in all cases of doubt seek medical advice. Show this material safety data sheet to the doctor in attendance.

**Eye contact**      Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes

**Skin contact**      Wash skin with soap and water

**Inhalation**      Move to fresh air

**Ingestion**      Rinse mouth with water and afterwards drink plenty of water or milk

**Most important symptoms and effects, both acute and delayed**

**Acute toxicity**

**Eyes**      No known effect

**Skin**      No known effect

**Inhalation**      No known effect

**Ingestion**      No known effect

**Main symptoms**      **Overexposure may cause:**  
mild respiratory irritation similar to nuisance dust.

**Aggravated Medical Conditions**      None under normal use conditions

**Indication of immediate medical attention and special treatment needed**

**Protection of first-aiders**      No special protective equipment required

**Notes to physician**      Treat symptomatically

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

**Suitable extinguishing media**      Use water spray or fog; do not use straight streams, Foam

**Unsuitable extinguishing media**      Do not use a solid water stream as it may scatter and spread fire

**Special hazards arising from the substance or mixture**

Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

**Hazardous combustion products**

Hazardous decomposition products due to incomplete combustion, Carbon oxides, Nitrogen oxides (NOx)

**Special protective actions for fire-fighters**

In the event of fire and/or explosion do not breathe fumes. Wear fire/flame resistant/retardant clothing. Use self-contained pressure-demand breathing apparatus if needed to prevent exposure to smoke or airborne toxins.

**Other information**

**Flammable properties** Not flammable. Will not readily ignite.  
**Flash point** Not applicable

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Avoid breathing dust

**Environmental precautions**

No special environmental precautions required

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent dust cloud  
**Methods for cleaning up** Use a vacuum cleaner to remove excess, then wash with COLD water. Hot water fuses the toner making it difficult to remove.

**Reference to other sections**

The environmental impact of this product has not been fully investigated  
 However, this preparation is not expected to present significant adverse environmental effects.

7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice  
 Avoid dust accumulation in enclosed space  
 Prevent dust cloud

**Hygiene measures** None under normal use conditions

**Conditions for safe storage, including any incompatibilities**

**Technical measures and storage conditions** Keep container tightly closed in a dry and well-ventilated place  
 Store at room temperature

**Incompatible products** None

**Specific end uses**

Xerographic printing

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Limits**

**ACGIH TLV TWA** 10 mg/m<sup>3</sup> (inhalable particles)  
**ACGIH TLV TWA** 3 mg/m<sup>3</sup> (respirable dust)  
**OSHA PEL TWA** 15 mg/m<sup>3</sup> (total dust)  
**OSHA PEL TWA** 5 mg/m<sup>3</sup> (respirable dust)  
**Xerox Exposure Limit** 2.5 mg/m<sup>3</sup> (total dust)  
**Xerox Exposure Limit** 0.4 mg/m<sup>3</sup> (respirable dust)

**Component Information**

Chemical Name	ACGIH TLV	OSHA PEL
Frits	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup>
Carbon black	TWA: 3 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>

**Exposure controls**

**Engineering measures**                      None under normal use conditions

**Individual protection measures, such as personal protective equipment (PPE)**

**Respiratory protection**                      No special protective equipment required.  
**Eye/Face protection**                        No special protective equipment required  
**Skin and body protection**                    No special protective equipment required  
**Hand protection**                              No special protective equipment required

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Appearance</b>	Powder	<b>Odor</b>	Faint
<b>Odor threshold</b>	Not applicable	<b>Physical state</b>	Solid
<b>pH</b>	Not applicable	<b>Color</b>	Black
<b>Flash point</b>	Not applicable	<b>Boiling point/range</b>	Not applicable
<b>Softening point</b>		<b>Autoignition temperature</b>	Not applicable

**Flammability Limits in Air**                      Not applicable

**Vapor pressure**                                      Not applicable  
**Vapor density**                                        Not applicable  
**Water solubility**                                    Negligible  
**Viscosity**    Not applicable  
**Partition coefficient**                                Not applicable  
**Evaporation rate**                                    Not applicable  
**Melting point/range**                                Not determined  
**Freezing point**                                      Not applicable  
**Decomposition temperature**                      Not determined  
**Specific gravity**                                      ~ 1 (toner component)

**Other information**

**Explosive properties**                              Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

**10. STABILITY AND REACTIVITY**

**Reactivity**

No dangerous reaction known under conditions of normal use

**Chemical stability**

Stable under normal conditions

**Possibility of hazardous reactions**

**Hazardous reactions**                              None under normal processing  
**Hazardous polymerization**                      Hazardous polymerization does not occur

**Conditions to avoid**

Prevent dust cloud, Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

**Incompatible materials to avoid**

None

**Hazardous decomposition products**

None under normal use

**11. TOXICOLOGICAL INFORMATION**

*The toxicity data noted below is based on the test results of similar reprographic materials.*

**Information on toxicological effects**

**Acute toxicity**

**Product Information**

**Irritation** No skin irritation, No eye irritation  
**Oral LD50** > 5 g/kg (rat)  
**Dermal LD50** > 5 g/kg (rabbit)  
**LC50 Inhalation** > 5 mg/L (rat, 4 hr)

**Component Information**

Chemical Name	LC50 Inhalation	Dermal LD50	Oral LD50
Carbon black		3 g/kg ( Rabbit )	15400 mg/kg ( Rat )

**Chronic toxicity**

**Sensitization** No sensitization responses were observed  
**Neurological Effects** No information available  
**Target organ effects** None known

**CMR Effects**

**Mutagenic effects** Not mutagenic in AMES Test  
**Reproductive toxicity** No information available  
**Carcinogenicity** See "Other Information" in this section.

Chemical Name	NTP	IARC
Carbon black		2B

**Other information**

The IARC (International Agency for Research on Cancer) has listed carbon black as "possibly carcinogenic to humans". However, Xerox has concluded that the presence of carbon black in this mixture does not present a health hazard. The IARC classification is based on studies evaluating pure, "free" carbon black. In contrast, toner is a formulation composed of specially prepared polymer and a small amount of carbon black (or other pigment). In the process of making toner, the small amount of carbon black becomes encapsulated within a matrix. Xerox has performed extensive testing of toner, including a chronic bioassay (test for potential carcinogenicity). Exposure to toner did not produce evidence of cancer in exposed animals. The results were submitted to regulatory agencies and published extensively.

**Other toxic effects**

**Aspiration Hazard** Not applicable  
**Other adverse effects** None known

**12. ECOLOGICAL INFORMATION**

**Toxicity**

On available data, the mixture / preparation is not harmful to aquatic life

**Component Information**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to	Toxicity to daphnia and

			<b>microorganisms</b>	<b>other aquatic invertebrates</b>
Carbon black				EC50 > 5600 mg/L 24 h

**Persistence and degradability**

Not readily biodegradable

**Bioaccumulative potential**

Bioaccumulation is unlikely

**Mobility in soil**

Insoluble in water

**Other adverse effects**

Presents little or no hazard to the environment.

**13. DISPOSAL CONSIDERATIONS**

**Disposal considerations**

**Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated packaging**

No special precautions are needed in handling this material

**14. TRANSPORT INFORMATION**

This material is not subject to regulation as a hazardous material for shipping

**15. REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**OSHA Regulatory Status**

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**Canada**

**This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR), and the SDS contains all the information required by the HPR.**

**International Inventories**

TSCA	Complies
DSL/NDSL	Complies

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any

