

Item # 99998

XEROX

Material Safety Data Sheet

MSDS No: A-0110

Date: 7/31/92

Revision: 2/24/95

1062

Manufacturer: Xerox Corporation  
Rochester, NY 14644

Telephone #(s):

Safety Information: (800) 828-6571  
Health Emergency: (716) 422-2177  
Transportation Emergency: (716) 422-1230

Section I - Product Identification

Trade Names/Synonyms: 1075/1090/4050/4090/4450/4530/4650/5388/  
5680/DocuTech 90/Docuprint 390 Dry Ink/ Toner

Part No.: USCO: 6R58\*, 6R301, 6R455\*;  
FX: 6R303\*, 6R306\*, 6R323;  
XCI: 6R501, 6R524\*; RX: 6R303

\*Cancelled

Chemical Name: Thermoplastic Powder

Ingredients

Styrene/acrylate polymer (>90%)  
Carbon black (5-10%)  
Quaternary ammonium salts (<5%)

CAS No.

25213-39-2  
1333-86-4  
123-03-5/3843-16-1

Note: Toners labeled 1075/1090/4050/4090/4650 contain only  
quaternary ammonium salt CAS# 123-03-5 (<5%)

Section II - Emergency and First Aid

Primary Route of Entry:

Inhalation

Eyes:

Flush with water.

Skin:

Wash with soap and water.

Inhalation:

Remove from exposure.

Ingestion:

Dilute stomach contents with several glasses of water.

Symptoms of Overexposure:

Minimal respiratory tract irritation may occur as with  
exposure to large amounts of any non-toxic dust.

Medical Conditions Generally Aggravated by Exposure:

None when used as described by product literature.

Additional Information:

None

Section III - Toxicology and Health Information

This material has been evaluated by Xerox Corporation.

Oral LD<sub>50</sub>: >10 g/kg (rats) practically non-toxic.<sup>1</sup>  
Dermal LD<sub>50</sub>: >2 g/kg (rabbits) practically non-toxic.<sup>1</sup>  
Inhalation LC<sub>50</sub>: >5 mg/l (rats, 4 hr exposure) practically non-toxic.<sup>1</sup>  
>20 mg/l (rats, calculated 1 hr exposure) non-poisonous,  
DOT.<sup>1</sup>

TLV: 10mg/m<sup>3</sup> (total dust)  
PEL: 15 mg/m<sup>3</sup> (total dust)  
5 mg/m<sup>3</sup> (respirable dust)  
STEL: N.E.  
Ceiling: N.E.  
XEL<sup>3</sup>: 2.5 mg/m<sup>3</sup> (total dust)  
0.4 mg/m<sup>3</sup> (respirable dust)

Eye Irritation: Not an irritant.<sup>1</sup>  
Skin Sensitization: Not a sensitizer.<sup>1</sup>  
Skin Irritation: Not an irritant.<sup>1</sup>  
Human Patch: Non-sensitizing, minimally irritating.<sup>1</sup>  
Mutagenicity: No mutagenicity detected in Ames Assay.<sup>1</sup>  
Carcinogens: None present  
Aquatic LC<sub>50</sub>: >500 mg/l (rainbow trout).<sup>2</sup>

Additional Information: Teratology (rats): No significant effects on fetal development.<sup>1</sup> Subchronic Inhalation (rats): No adverse effects other than those due to "lung overloading" (defined below).

The results obtained from a Xerox sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1mg/m<sup>3</sup>) exposure level (i.e. the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in one-fourth of the animals at the middle (4mg/m<sup>3</sup>) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m<sup>3</sup>) exposure level. These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged period. This study was conducted using a special test toner to comply with EPA testing protocol. The test toner was ten times more respirable than commercially available Xerox toner, and would not be functionally suitable for Xerox equipment.

<sup>1</sup>Based on testing similar xerographic toner materials. <sup>2</sup>Toners labeled 1075/1090/4050/4090/4650: Aquatic LC<sub>50</sub>>50 mg/l (rainbow trout) <sup>3</sup>XEL-Xerox Exposure Limit

N.A. - Not Applicable N.E. -None Established N.D. -Not Determined

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Docuprint 390 Dry Ink/Toner

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**Section IV - Physical Data**

Appearance/Odor:	Black powder / faint odor	Softening Range:	85°C to 100°C
Boiling Point:	N.A.	Melting Point:	N.A.
Solubility in Water:	Negligible	Specific Gravity (H <sub>2</sub> O=1):	-1
Evaporation Rate:	N.A.	Vapor Pressure (mm Hg):	N.A.
Vapor Density (Air=1):	N.A.	pH:	N.A.
Volatile:	N.A.% (Wgt) N.A. % (Vol.)		

**Section V - Fire and Explosion Data**

Flash Point (Method Used):	N.A.	Flammable Limits	LEL: N.A. UEL: N.A.
Extinguishing Media:	Water, dry chemical, carbon dioxide or foam.		
Special Fire Fighting Procedures:	Avoid inhalation of smoke. Wear protective clothing and self-contained breathing apparatus.		
Fire and Explosion Hazards:	Toner is a combustible powder. Like most organic materials in powder form, when dispersed in air, it can form explosive mixtures.		

**Section VI - Reactivity Data**

Stability:	Stable	Hazardous Polymerization:	Will Not Occur
Hazardous Decomposition Products:	Products of combustion may be toxic. Avoid breathing smoke.		
Incompatibility (Materials to Avoid):	None known		

**Section VII - Special Protection Information**

Respiratory Protection:	None required when used as intended in Xerox equipment.
Eye Protection:	None required when used as intended in Xerox equipment.
Protective Gloves:	None required when used as intended in Xerox equipment.
Other:	For use other than normal customer - operating procedures (such as in bulk toner processing facilities), goggles and respirators may be required. For more information, contact Xerox.

**Section VIII - Special Precautions**

Handling and Storage:	None
Conditions to Avoid:	Avoid prolonged inhalation of excessive dust.

**Section IX - Spill, Leak, and Disposal Procedures**

For Spills or Leakage:	Sweep up or vacuum spilled toner and carefully transfer into sealable waste container. Sweep slowly to minimize generation of dust during clean-up. If a vacuum is used, the motor must be rated as dust tight. A conductive hose bonded to the machine should be used to reduce static buildup (See Section V). Residue can be removed with soap and cold water. Garments may be washed or dry cleaned, after removal of loose toner.
Waste Disposal Method:	This material is not a hazardous waste according to Federal Regulation 40 CFR 261. State and Local waste disposal requirements may however, be more restrictive. Consult with the appropriate State and Local authorities for specific information. Incinerate only in a closed container.

**Section X - Transportation Information**

DOT Proper Shipping Name:	N.A. (Not Regulated)	ID Number:	N.A.
Hazard Classification:	N.A.	Packing Group:	N.A.

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