

#99073 172

XEROX

Material Safety Data Sheet

MSDS No: A-0086

Date: 12/7/90

Revision: 3/14/95

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: 5312/5313/5314 Black Dry Ink

Part No.: 6R379, 6R380, 6R563; XLA: 6R381;
XCL:6R562; RX: 6R90177

Chemical Name: None

WHMIS Status: This is not a WHMIS controlled product

Ingredients (% by wt.)
Styrene/acrylate polymer (45-50%)
Iron oxide (45-50%)
Polypropylene wax (1-4%)
Quaternary ammonium salt (<2%)
Amorphous silica (<1%)

CAS No.
25767-47-9
1309-38-2
9003-07-0
102561-46-6
112945-52-5/7631-86-9
(TSCA; EINECS)

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 LD₅₀: >5 g/kg (rats) practically non-toxic.¹Dermal LD₅₀: >2 g/kg (rats) practically non-toxic.¹

Inhalation LC₅₀: >5 mg/l (rats, 4 hr exposure) practically non-toxic.¹
>20 mg/l (rats, calculated 1 hr exposure) non-poisonous,
DOT.¹

Eye Irritation: Non-irritating.

Skin Sensitization: Not a sensitizer.¹Skin Irritation: Not an irritant.¹

Human Patch: Non-irritating, non-sensitizing

Mutagenicity: Non-mutagenicity detected in Ames Assay.

Carcinogens: None present

Aquatic LC₅₀: Not testedTLV: 10mg/m³ (total dust)PEL: 15 mg/m³ (total dust)5 mg/m³ (respirable dust)

STEL: None established

Ceiling: None established

XEL²: 2.5 mg/m³ (total dust)0.4 mg/m³ (respirable dust)

Additional Information: The results obtained from a Xerox sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1mg/m³) 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/m³) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m³) 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.

¹Based on testing similar xerographic toner materials. ²XEL-Xerox Exposure Limit

99073

99073 202

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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 ₂ O=1):	~3
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.
Eye Protection:	None required when used as intended.
Protective Gloves:	None required when used as intended.
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.
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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.
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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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