

Material Safety Data Sheet

MSDS No.: 0023

2264

Date: Sept. 30, 1982

Revision: Apr 4, 1989

Manufacturer: Xerox Corporation
Rochester, New York 14644

Emergency Tel. No.: (716) 422-2177
Information Tel. No.: (800) 828-6571

Section I - Product Identification

Trade Names/Synonyms: 1075/1090/4050/4090/4650
Dry Ink, 1075/1090 Toner

Part No.: 6R58, 6R301; RX: 6R303, 6R306;
6R501, 6R524 (XCI)

Chemical Name: Thermoplastic powder

IngredientsCAS No.

Styrene/Acrylate Polymer (>90%)
Carbon Black (5-10%)
Quaternary Ammonium Salt (<2%)

25213-39-2
1333-86-4
123-03-5

Section II - Emergency and First Aid

Eyes: Flush with water

Skin: Wash with soap and water.

Inhalation: Remove from exposure.

Ingestion: Dilute stomach contents with several glasses of water.

Primary Route of Entry: Inhalation

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

Medical Conditions Aggravated by Exposure: None when used as described by product literature.

Additional Information: See Sections V and VII.

Further information on file in Poisindex.

Section III - Toxicology and Health Information

This material has been evaluated by Xerox Corporation.

Oral LD₅₀: (Rats) practically non-toxic.

Dermal LD₅₀: (Rabbits) practically non-toxic.

Inhalation LC₅₀: (Rats) practically non-toxic.¹

Eye Irritation: Not an irritant.

Skin Sensitization: Not a sensitizer.

Skin Irritation: Not an irritant.

Human Patch: Non-sensitizing, minimally irritating

Mutagenicity: No mutagenicity detected in Ames, Mouse Lymphoma,
CHO/SCE, Micronucleus, and 3T3 Transformation Assays.

Carcinogens: None present

Aquatic LC₅₀: >500 mg/l (Fathead Minnows) non-toxic

Additional Information: Subchronic Inhalation (Rats)/(-) No adverse histopathological effects;

Teratology (Rats)/(-) No significant effects on fetal development.

In a Xerox sponsored chronic inhalation study in rats using a special test toner, there were no lung changes at all in the lowest exposure level (1 mg/m³), the most relevant level to potential human exposures. A very slight degree of fibrosis was noted in 25 % of the animals at the middle exposure level (4 mg/m³) while a slight degree of fibrosis was observed at the highest exposure level (16 mg/m³) in all animals. These findings are attributed to "lung overloading," a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. The special test toner was ten times more respirable than commercially available Xerox toner to comply with EPA testing protocol and would not function properly in Xerox equipment.

TLV: 10 mg/m³ (Total Dust)

PEL: 15 mg/m³ (Total Dust)

5 mg/m³ (Respirable Dust)

XEL²: 1.0 mg/m³ (Total Dust)

0.4 mg/m³ (Respirable Dust)

¹Not tested to the highest dose or concentration

²XEL - Xerox Exposure Limit

Section IV - Physical Data

Appearance/Odor: Black powder / faint odor
Boiling Point: N.A.
Solubility in Water: Negligible
Evaporation Rate: N.A.
Vapor Density (Air = 1): N.A.
Volatile N.A. % (Wgt.) N.A. % (Vol.)

Softening Range: 85°C to 100°C
Melting Point: N.A.
Specific Gravity (H₂O = 1): ~1
Vapor Pressure (mm Hg): N.A.
pH = N.A.

Section V - Fire and Explosion Data

Flash Point (Method Used): N.A.

Flammable LEL: N.A.
Limits UEL: N.A.

Extinguishing Media: Water, foam, dry chemical

Special Fire Fighting Procedures: Avoid inhalation of smoke.

Fire and Explosion Hazards: Toner is combustible powder. When dispersed in air, it can form explosive mixtures.

Section VI - Reactivity Data

Stability:

Unstable

Stable

X

Hazardous

Polymerization:

May Occur

Will Not Occur

X

Hazardous Decomposition Products: Products of combustion are toxic. Avoid breathing smoke.

Incompatibility (Materials to Avoid): None

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: loose toner can be removed using a vacuum cleaner. Residue can be removed with soap and cold water. After removal of loose toner, garments may be washed or dry-cleaned.

Waste Disposal Method: Do not incinerate. No special techniques beyond normal practice. Insure conformity with federal, state, and local regulations.

*Biodegradation/not readily biodegradable

Section X - Transportation Information

DOT Proper Shipping Name: Not Regulated

Hazard Classification: N.A.

ID Number: N.A.