**XEROX** **Material Safety Data Sheet**

**MSDS No:** A-0209B
**Date:** 8/31/94
**Revision:** 12/10/12

**Manufacturer:**
Xerox Corporation
Rochester, N.Y. 14644

**Telephone #(s)** *Safety Information:* (800) 828-6571
*Health Emergency:* (585) 422-2177
*Transportation Emergency(Chemtrec):* (800) 424-9300

## Section I - Product Identification

**Trade Names/Synonyms:** 4354 Black Dry Ink **Part No.:** 6R824

**Chemical Name:** None

**WHMIS Status:** This is not a WHMIS controlled product.

| Ingredients (% by wt.) | CAS No. |
|---|---|
| Styrene Acrylic Copolymer (>80%) | 25987-66-0 |
| Polypropylene (<6%) | 9003-07-0 |
| Nigrosine Dye (<6%) | 8005-02-5 |
| Carbon Black (<11%) | 1333-86-4 |

## Section II - Emergency and First Aid

**Primary Route of Entry:**
Inhalation

**Eyes:**
Flush with water for at least 15 minutes. Call a physician.

**Skin:**
Wash with soap and water.

**Inhalation:**
Remove from exposure to fresh air. Call a physician.

**Ingestion:**
Do NOT induce vomiting. Call a physician.

**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

**Additional Information:**
None when used as described by product literature.

## Section III - Toxicology and Health Information

*This material has been evaluated by Xerox Corporation.*

**Oral $LD_{50}$:** >5 g/kg (rats) practically non-toxic. [1]
**Dermal $LD_{50}$:** >5 g/kg (rabbits) practically non-toxic. [1]
**Inhalation $LC_{50}$:** >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:** Not an irritant. [1]
**Skin Sensitization:** Not a sensitizer. [1]
**Skin Irritation:** Not an irritant. [1]
**Human Patch:** Non-sensitizing, non-irritating. [1]
**Mutagenicity:** No mutagenicity detected in Ames test, and CHO/SCE.
**Carcinogens:** None present
**Aquatic $LC_{50}$:** >1125 mg/l (rainbow trout), non-toxic. [1]

**TLV:** 10mg/$m^3$ (total dust)
**PEL:** 15 mg/$m^3$ (total dust)
5 mg/$m^3$ (respirable dust)
**STEL:** N.E.
**Ceiling:** N.E.
**XEL[2]:** 2.5 mg/$m^3$ (total dust)
0.4 mg/$m^3$ (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-forth 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.

[1]Based on the testing of similar xerographic toner materials. [2]XEL-Xerox Exposure Limit

## Section IV - Physical Data

| | | | |
|---|---|---|---|
| **Appearance/Odor:** | Black powder / faint odor | **Softening Range:** | N.D. |
| **Boiling Point:** | N.A. | **Melting Point:** | N.A. |
| **Solubility in Water:** | Insoluble | **Specific Gravity ($H_2O$=1):** | 1.1 |
| **Evaporation Rate:** | N.A. | **Vapor Pressure (mm Hg):** | N.A. |
| **Vapor Density (Air=1):** | N.A. | **pH:** | N.D. |
| **Volatile** | N.A.% (Wgt) N.A. % (Vol.) | | |

## Section V - Fire and Explosion Data

| | |
|---|---|
| **Flash Point (Method Used):** | N.D. |
| **Flammable Limits** | **LEL:** N.A. **UEL:** N.D. |
| **NFPA 704:** | N.D. |
| **Extinguishing Media:** | $CO_2$, foam or dry powder. |
| **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

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|---|---|
| **Stability:** | N.D. |
| **Hazardous Polymerization:** | N.D. |
| **Hazardous Decomposition Products:** | N.D. |
| **Incompatibility (Materials to Avoid):** | N.D. |

## Section VII - Special Protection Information

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|---|---|
| **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 bulk use (e.g. 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 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. |