Material Safety Data Sheet

Manufacturer: Xerox Corporation
Address: Rochester, NY 14644
Telephone Number(s): (800) 828-6571
Health Emergency: (585) 422-2177
Transportation Emergency (Chemtrec): (800) 424-9300

MSDS No.: A-0085
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Section 1: Product Identification

Trade Name/Synonyms: 4213/4213-II Dry Ink Cartridge B / Developer Cartridge C
Part No.: WH: 6R434, 6R435*, 6R448, 6R450; XCI: 5R555, 6R545*; RX: 6R339, 6R342, 6R449, 6R451, XLA: 5R187, 6R341; Kit: 8R3990  *Cancelled

WHMIS Status: This is not a WHMIS controlled product

Ingredients (% by wt.)
- Iron oxide (45-55%)  1317-61-9
- Styrene/acrylate polymer (40-45%)  25767-47-9
- Polyolefin (<5%)  9003-07-0
- Amorphous silica (<2%)  112945-52-5/7631-86-9

Section 2: Emergency and First Aid

Primary Route of Entry: Inhalation
Eyes: Minimal respiratory tract irritation may occur as with exposure to large amounts of any non-toxic dust.
Skin: Wash with soap and water
Inhalation: Remove from exposure.
Ingestion: None

Symptoms of Overexposure:
- Medical Conditions Generally Aggravated by Exposure: None when used as described by product literature.

Section 3: Toxicology and Health Information

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

Eye Irritation: Not an irritant
Skin Sensitization: Not a sensitizer
Skin Irritation: Not an irritant
Mutagenicity: No mutagenicity detected in Ames assay.
Carcinogens: None present

Oral LD₅₀: >5 g/kg (rats) practically non-toxic.
Dermal LD₅₀: >5 g/kg (rabbits) practically non-toxic
Inhalation LC₅₀: >5 mg/l (rats, 4hr exposure) practically non-toxic.
>20 mg/l (calculated 1 hr exposure) non-poisonous, DOT

Eye Irritation: Not an irritant
Skin Sensitization: Not a sensitizer
Skin Irritation: Not an irritant
Human Patch: Non-irritating, non-sensitizing

Oral LD₅₀: 10 mg/m³ (inhaled particles)
Dermal LD₅₀: 3 mg/m³ (respirable particles)
Inhalation LC₅₀: 5 mg/m³ (total dust)

TLV: 10 mg/m³ (inhaled particles)
PEL: 15 mg/m³ (total dust)
STEL: Not established

XEL: 2.5 mg/m³ (total 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 (the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25% of 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 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.

¹XEL-Xerox Exposure Limit
N.A. - Not Applicable  N.E. -None Established  N.D. -Not Determined 600E58520
Section 4 – Physical Data

**Appearance/Odor:** Fine black powder/ faint odor  
**Softening Range:** 120°F - 140°F  
**Boiling Point:** Not applicable  
**Melting Point:** N.D.  
**Solubility in Water:** Negligible  
**Specific Gravity (H₂O=1):** ~1  
**Evaporation Rate:** Not applicable  
**Vapor Pressure (mm Hg):** Not applicable  
**Vapor Density (Air=1):** Not applicable  
**pH:** Not applicable  
**Volatile:** Not applicable % (Wt.) Not applicable % (Vol.)

Section 5 – Fire and Explosion Data

**Flash Point (Method Used):** Not applicable  
**Flammable Limits:** LEL: Not applicable, UEL: Not applicable  
**NFPA 704:** Consumer Use and Storage (“Cartridge”/ “Bottle”) – Health -0, Fire-1, Reactivity-0  
**Extinguishing Media:** Avoid direct stream – gently apply water mist, water fog, 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, it can form explosive mixtures when dispersed in air.

Section 6 – 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 7 – 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 8 – Special Precautions

**Handling and Storage:** Keep container tightly closed  
**Conditions to Avoid:** Avoid prolonged inhalation of excessive dust.

Section 9 – Spill, Leak, and Disposal Procedures

**For Spills or Leakage:** Sweep up or vacuum spilled toner and carefully transfer into sealable waster container. Sweep slowly to minimize generation of dust during clean-up. If 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 5). 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 when disposed. State and Local requirements may, however, be more restrictive. Consult with the appropriate State and Local waste disposal authorities for additional information. Incinerate only in a closed container.

Section 10 – Transportation Information

This product is not regulated as a hazardous material