XEROX Material Safety Data Sheet

MSDS No: A-02094
Date: 12/6/95
Revision: 8/15/96

Distributor: 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: DocuPrint 420 CFT, DocuPrint 377 CF Black Toner
Part No.: WH: 6R852
RX: 6R90253

Chemical Name: None

WHMIS Status: This is not a WHMIS controlled product.

Section II - 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. None when used as described by product literature.
Inhalation: Remove from exposure.
Ingestion: None

Symptoms of Overexposure:

Additional Information:

Section III - Toxicology and Health Information

This material has been evaluated by Xerox Corporation. The toxicity data presented below is based on test results of similar xerographic toner materials.

Oral LD_{50}: >10 g/kg (rats) practically non-toxic.
Dermal LD_{50}: >2 g/kg (rabbits) practically non-toxic.
Inhalation LC_{50}: >5 mg/l (rats, 4 hr exposure)practically non-toxic.
>20 mg/l (calculated 1 hr exposure) non-poisonous, DOT.

Eye Irritation: Not an irritant.
Skin Sensitization: Not a sensitizer.
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Human Patch: Non-irritating, non-sensitizing.
Mutagenicity: No mutagenicity detected in Ames, Micronucleus, CHO/HGPRT, and Yeast Mitotic Recombination Assays.
Carcinogens: None present
Aquatic LC_{50}: >1000 mg/l (fathead minnows) non-toxic.

TLV: 10mg/m^3 (total dust)
PEL: 15 mg/m^3 (total dust)
STEL: 5 mg/m^3 (respirable dust)
Ceiling: N.E.
XEL: 2.5 mg/m^3 (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/m^3) exposure level (i.e. the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25% of the animals at the middle (4mg/m^3) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m^3) 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.

1This ingredient is claimed as a trade secret by a Xerox supplier and is registered under the New Jersey trade secret number: 80100185-5061P.
2Test results specific to this product.
3XEL-Xerox Exposure Limit

N.A. - Not Applicable N.E. -None Established N.D. -Not Determined 602E15970
Xerox Trade Name: DocuPrint 420 CFT, DocuPrint 377 CF Black 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 (H₂O=1): N.A.
Evaporation Rate: N.A.
Vapor Pressure (mm Hg): Negligible
Vapor Density (Air=1): Negligible
pH: N.A.
Volatile: Negligible % (Wgt) N.A. % (Vol.)

Section V - Fire and Explosion Data

Flash Point (Method Used): N.A.
Flammable Limits: LEL: N.A.  UEL: N.A.
NFPA 704: Health = 0, Fire=3, Reactivity= 0
Extinguishing Media: Water spray, CO₂, dry chemical.
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. 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): Strong oxidizing agents.

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: When disposed, this material is not a hazardous waste according to Federal Regulation 40 CFR 261. State and Local requirements may be more restrictive. Consult with the appropriate State and Local waste disposal authorities for more 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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