Material Safety Data Sheet

Manufacturer: Xerox Corporation
Rochester, NY 14644

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

Section I - Product Identification

Trade Names/Synonyms: XEROX 490/980 Continuous Feed Printing System Developer
Part No.: 5R726, 5R727, 5R728, 5R729

WHMIS Status: This is not a WHMIS controlled product

Ingredients (% by wt.)

Ferrite powder (80-90%)  Proprietary
Polyester resin (1-10%)  Proprietary
Color pigments (black, magenta, cyan, yellow) (0-1%) Proprietary
Aliphatic and aromatic resin (0-1%) Proprietary

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 milk or 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:

Section III - Toxicology and Health Information

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

Oral LD50: (rat) >2000 mg/kg
Dermal LD50: (rabbit) >2000 mg/kg
Inhalation LC50: (rat) >5 mg/L/hr
Eye Irritation: Not an irritant
Skin Sensitization: Not a sensitizer
Skin Irritation: Not an irritant
Human Patch: N/A
Mutagenicity: Ames Assay: Negative
Carcinogens: Not classified as Carcinogens
Aquatic LC50: N/A

TLV: 10 mg/m³ (inhalingable particles)
PEL: 3 mg/m³ (respirable particles)
XEL: 5 mg/m³ (total dust)

STEL: Not established
Ceiling: Not established
XEL1: 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 (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/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.

1XEL-Xerox Exposure Limit

604E32210
Section IV - Physical Data

Appearance/Odor: Fine powder (black, yellow, magenta, cyan) / 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 V - 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
Manufacturing Use and Storage (“Bulk Containers”) -- Health - 0, Fire -3, 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 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 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: “Perchlorate Material – special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate”
Storage: Keep container tightly closed.
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 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. Special Note: For California use: www.dtsc.ca.gov/hazardouswaste/perchlorate

Section X - Transportation Information

This product is not regulated as a hazardous material