XEROX

Material Safety Data Sheet

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Manufacturer: Xerox Corporation
Rochester, New York 14644

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

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Section I - Product Identification

Trade Names/Synonyms: 5018/5028 Black Dry Ink /Black Toner / Copy Ctg.

Part No. : 6R136, 6R244, 6R255, 13R9, 13R13, 13R18

Chemical Name: None

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Ingredients	CAS No.
Styrene/Butadiene Copolymer (50-75%)	9003-55-8
Steel Powder (20-30%)	---
Iron Oxide (10-15%)	1309-37-1
Rosin Acid (<5%)	8050-09-7
Carbon Black (<5%)	1333-86-4
Quaternary Ammonium Salt (<2%)	3843-16-1

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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 Generally Aggravated by Exposure: None when used as directed 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 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) practically non-toxic.[1]
Eye Irritation: Not an irritant
Skin Sensitization: Not a sensitizer
Skin Irritation: Not an irritant
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}: >500 mg/l (Fathead Minnows) non-toxic

TLV: 10 mg/m³ (Total Dust)

PEL: 15 mg/m³ (Total Dust)
5 mg/m³ (Respirable Dust)

XEL[2]: 2.5 mg/m³ (Total Dust)
0.4 mg/m³ (Respirable Dust)

Additional Information: Some of the information reported above is test data of similiar products.
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.

[1]Not tested to the highest dose or concentration [2]XEL - Xerox Exposure Limit

N.A. - Not Applicable

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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 (H_2O = 1): 1
Vapor Pressure (mm Hg): N.A.
pH = N.A.

Section V - Fire and Explosion Data

Flash Point (Method Used): N.A.

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

Extinguishing Media: Water, Foam, Dry Chemical

Special Fire Fighting Procedures: Avoid inhalation of smoke.

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

Section VI - Reactivity Data

Stability:	Unstable		Hazardous Polymerization:	May Occur	
	Stable	X		Will Not Occur	X

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

Incompatability (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 or local regulations.

Section X - Transportation Information

DOT Proper Shipping Name: Not Regulated
Hazard Classification: N. A.
ID Number: N. A.