



# Material Safety Data Sheet

MSDS No.: A-0059

Date: 12/15/86

Revision: 2/15/91

Manufacturer: Xerox Corporation  
Rochester, N.Y. 14644

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

## Section I - Product Identification

Trade Names/Synonyms: 5018 /5028 /5034 Black Dry Ink /Black Toner /Copy Ctg. Part No.: 6R136, 6R244, 6R255, 13R9, 13R13, 13R18, 6R261; XCI: 6R527, 13R511, 13R505; RX: 13R34; XLA: 13R35; FX: 13R31

Chemical Name: None

### Ingredients

### CAS No.

Styrene/butadiene copolymer (50-75%)	9003-55-8
Steel powder (20-30%)	7439-89-6
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

## 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 described 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 <sub>50</sub> :	> 10 g/kg (Rats) practically non-toxic	TLV:	10 mg/m <sup>3</sup> (Total Dust)
Dermal LD <sub>50</sub> :	> 2 g/kg (Rabbits) practically non-toxic	PEL:	15 mg/m <sup>3</sup> (Total Dust)
Inhalation LC <sub>50</sub> :	> 5 mg/l (Rats) practically non-toxic. <sup>1</sup>		5 mg/m <sup>3</sup> (Respirable Dust)
Eye Irritation:	Not an irritant.	XEL <sup>2</sup> :	2.5 mg/m <sup>3</sup> (Total Dust)
Skin Sensitization:	Not a sensitizer.		0.4 mg/m <sup>3</sup> (Respirable Dust)
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 <sub>50</sub> :	> 500 mg/l (Fathead Minnows) non-toxic		

Additional Information: Some of the information reported above is test data of similar 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/m<sup>3</sup>), 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/m<sup>3</sup>) while a slight degree of fibrosis was observed at the highest exposure level (16 mg/m<sup>3</sup>) 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.

<sup>1</sup>Not tested to the highest dose or concentration <sup>2</sup>XEL - Xerox Exposure Limit

### 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<sub>2</sub>O = 1): ~1  
 Vapor Pressure (mm Hg): N.A.  
 pH = N.A.

### Section V - Fire and Explosion Data

Flash Point (Method Used): N.A.

Extinguishing Media: Water, dry chemical, carbon dioxide or foam. Flammable Limits: LEL: N.A. UEL: N.A.

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

Stability: 

Unstable	
Stable	X

Hazardous Polymerization: 

May Occur	
Will Not Occur	X

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 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 a 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: Dispose of in accordance with federal, state and local regulations. Incinerate only in a closed container.

### Section X - Transportation Information

DOT Proper Shipping Name: Not Regulated

Hazard Classification: N.A.

ID Number: N.A.