

XEROX**Material Safety Data Sheet**

MSDS No.: B-02378

Date: 9/22/86

Revision: 3/22/91

Manufacturer: Xerox Corporation
Rochester, N.Y. 14644

Emergency Tel. No.: (716) 422-2177
Information Tel. No.: (800) 828-6571
Transportation Emergency Telephone No.: (716) 422-1230

Section I - Product Identification

Trade Names/Synonyms: 1065/5018/5028/5034/
5046/5065 Developer

Part No.: SR167, SR168, SR416,
SR524, SR90094(RX),
502S30836, 502S30837,
502S62463, 502S62464,
502S62465, 502S62500,
SR422, Contained in 13R7
13R9

Chemical Name: None

Ingredients**CAS No.**

Carrier (>95%):	
Steel powder (>99%)	7439-89-6
Fluoropolymer (<1%)	24937-97-1
Toner (<5%):	
Styrene/butadiene copolymer (75-80%)	9003-55-8
Iron oxide (15-20%)	1309-37-1
Rosin acid (<5%)	8050-09-7
Carbon black (<5%)	1333-86-4

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 LD₅₀:	> 10 g/kg (Rats) practically non-toxic.	TLV:	10 mg/m ³ (Total Dust)
Dermal LD₅₀:	> 2 g/kg (Rabbits) practically non-toxic	PEL:	15 mg/m ³ (Total Dust)
Inhalation LC₅₀:	> 5 mg/l (Rats) practically non-toxic. ¹		5 mg/m ³ (Respirable Dust)
Eye Irritation:	Not an irritant.	XEL²:	2.5 mg/m ³ (Total Dust)
Skin Sensitization:	Not a sensitizer.		0.4 mg/m ³ (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 LC₅₀:	> 500 mg/l (Fathead Minnows) non-toxic		
Additional Information:	The information noted above is toxicity data for toner.		

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.

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

Section IV - Physical Data

Appearance/Odor:	Black granular / faint odor	Softening Range:	N.A.
Boiling Point:	N.A.	Melting Point:	N.A.
Solubility in Water:	N.A.	Specific Gravity (H ₂ O = 1):	~5
Evaporation Rate:	N.A.	Vapor Pressure (mm Hg):	N.A.
Vapor Density (Air = 1):	-N.A.	pH =	N.A.
Volatile	N.A. %(Wgt.)	N.A. %(Vol.)	

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. Wear protective clothing and self-contained breathing apparatus.			
Fire and Explosion Hazards:	None			

Section VI - Reactivity Data

Stability:	<u>Unstable</u>		Hazardous Polymerization:	<u>May Occur</u>	
	Stable	X		Will Not Occur	X
Hazardous Decomposition Products:	Products of combustion may be toxic. Avoid breathing smoke.				
Incompatibility (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:	If spilled, sweep up or vacuum
Waste Disposal Method:	No specific waste disposal method required. Dispose of in accordance with federal, state, and local regulations.

Section X - Transportation Information

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