

XEROX

Material Safety Data Sheet

MSDS No.: B-0223

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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: 1040/1045/1048/1050/5042/5052 Part No.: 5R111, 5R127, 5R139,
Developer 5R140; XCI: 5R507, 5R505,
5R509

Chemical Name: None

IngredientsCAS No.Carrier (>95%):

Iron powder (>95%)
Polymethylmethacrylate (<5%)

7439-89-6
9011-14-7

Toner (<5%):

Styrene/acrylate polymer (85-90%)
Carbon black (10-15%)
Amorphous silica (<1%)
Zinc stearate (<1%)

25213-39-2
1333-86-4
7631-86-9
557-05-1

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 LD₅₀:	> 16 g/kg (Rats) practically non-toxic.	TLV:	10 mg/m ³ (Total Dust)
Dermal LD₅₀:	> 2.3 g/kg (Rabbits) practically non-toxic.	PEL:	15 mg/m ³ (Total Dust)
Inhalation LC₅₀:	> 5 mg/l (Rats, 4 hr exposure) practically non-toxic. ¹		5 mg/m ³ (Respirable Dust)
	> 20 mg/l (calculated 1 hr exposure) non-poisonous, DOT. ¹	STEL:	None established
Eye Irritation:	Not an irritant.	Ceiling:	None established
Skin Sensitization:	Not a sensitizer.	XEL²:	2.5 mg/m ³ (Total Dust)
Skin Irritation:	Not an irritant.		0.4 mg/m ³ (Respirable Dust)
Human Patch:	Non-irritating, non-sensitizing		
Mutagenicity:	No mutagenicity detected in Ames Assay.		
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.

¹Based on testing similar Xerographic toner materials. 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:	When disposed, this material is not a hazardous waste according to Federal Regulation 40 CFR 261. However, State and Local requirements may be more restrictive. Therefore, consultation with the appropriate State and Local waste disposal authorities is advised.

Section X - Transportation Information

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