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## Material Safety Data Sheet

*Public*

NFPA	Protective Clothing	DOT
		

<i>Section 1. Chemical Product and Company Identification</i>			
<b>FOR EMERGENCIES</b>  Health: (716) 422-2177 Transportation: (716) 422-1230 In Quebec: 1-800-463-5060	<b>FOR INFORMATION</b>  Customer Safety: Tel: 1-800-828-6571 Internet:customer_safety@wb.xerox.com  MSDS Webpage: http://www.xerox.com/ehs/msds	MSDS#	A-0024
		Eng. Drwg. No.	600E56110
		Date	1/17/83
		Revision Date	4/17/98
Manufacturer(s)	Xerox Corporation Rochester, NY 14644		
Supplier(s)	Xerox Corporation Rochester, NY 14644		
Material Uses	Xerographic imaging media.		
Trade Name(s)	<b>1040, 1045, 1048, 1050, 5042, 5050/P, 5051, 5052, 5053, 5345, 5355, Bookmark 35 Dry Ink Plus</b>		
Chemical name	None.		
Synonym	Toner		
Part No.	GSA: 6R74113 US: 6R726, 6R113, 6R128*, 6R112, 6R510*, 6R119* XCI: 6R727, 6R520*, 6R521* XLA: 6R75112*, 6R728		

<b>Section 2. Composition, Information on Ingredients</b>				
<b>Common Name</b>	<b>CAS #</b>	<b>% by Weight</b>	<b>Exposure Limits PEL/TLV/XEL</b>	<b>LC<sub>50</sub>/LD<sub>50</sub></b>
Styrene/acrylate polymer	25213-39-2	85-90	Not available.	Not available.
Carbon black	1333-86-4	10-15	ACGIH (TLV-TWA): 3.5 (mg/m <sup>3</sup> ), 1996	Not available.

<b>Section 3. Hazards Identification</b>	
<b>Acute Health Effects</b>	Non-irritant for skin. Non-sensitizer for skin. Non-irritating to the eyes.
<b>Chronic Health Effects</b>	<b>CARCINOGENIC EFFECTS:</b> None present. <b>MUTAGENIC EFFECTS:</b> None detected in Ames assay.
<b>Primary Routes of Entry</b>	Inhalation.
<b>Medical Conditions Aggravated by Overexposure:</b>	None when used as described by product literature.
<b>Signs and Symptoms of Overexposure:</b>	Minimal respiratory tract irritation may occur as with exposure to large amounts of any non-toxic dust.

<b>Section 4. First Aid Measures</b>	
<b>Eye Contact</b>	Rinse with water for a few minutes.
<b>Skin Contact</b>	Wash with soap and water.
<b>Inhalation</b>	Remove from exposure.
<b>Ingestion</b>	Dilute stomach contents with several glasses of milk or water.

<b>Section 5. Fire and Explosion Data</b>	
<b>Flammability</b>	Combustible.
<b>Auto-Ignition Temperature</b>	Not applicable.
<b>Flash Point</b>	Not applicable.
<b>Flammable Limits</b>	Not applicable.
<b>Products of Combustion</b>	Products of combustion may be toxic. Avoid breathing smoke.
<b>Fire Hazards</b>	None.
<b>Explosion Hazards</b>	Toner is a combustible powder. Like most organic materials in powder form, it can form explosive mixtures when dispersed in air.
<b>Fire Fighting Media and Instructions</b>	Use DRY chemicals, CO <sub>2</sub> , water spray or foam. Avoid inhalation of smoke. Wear protective clothing and self-contained breathing apparatus.
<b>Special Remarks on Fire</b>	No additional remark.

<b>Hazards</b>	
<b>Special Remarks on Explosion Hazards</b>	No additional remark.

### **Section 6. Accidental Release Measures**

<b>Spill or Leakage</b>	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 build-up. Residue can be removed with soap and cold water. Garments may be washed or dry cleaned after removal of loose toner.
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### **Section 7. Handling and Storage**

<b>Handling</b>	Avoid prolonged inhalation of excessive dust. Use with adequate ventilation.
<b>Storage</b>	Keep container tightly closed.

### **Section 8. Exposure Controls/Personal Protection**

<b>Engineering Controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
<b>Personal Protection Equipment</b>	None required when used as intended in Xerox equipment. For use such as in bulk toner processing facilities, goggles, gloves, and respirators may be required. For more information contact Xerox Safety.
<b>Final Product Exposure Limits PEL/TLV/XEL</b>	ACGIH (TLV-TWA): 10 (mg/m <sup>3</sup> ) Total Dust. OSHA (PEL-TWA): 15 (mg/m <sup>3</sup> ) Total Dust, OSHA (PEL-TWA): 5 (mg/m <sup>3</sup> ) Respirable Dust. XEROX (XEL-TWA): 2.5 (mg/m <sup>3</sup> ) Total Dust, XEROX (XEL-TWA): 0.4 (mg/m <sup>3</sup> ) Respirable Dust.  XEL - Xerox exposure limit. Reported values are for particulates not otherwise classified (PNOC)

### **Section 9. Physical and Chemical Properties**

<b>Physical state and appearance</b>	Solid. (Powder)	<b>Color</b>	Black
<b>pH</b>	Not applicable.	<b>% Volatile</b>	Not applicable.
<b>Boiling Point</b>	Not applicable.	<b>VOC</b>	Not applicable.
<b>Melting Point</b>	130 to 170°F (54 to 77°C)	<b>Evaporation rate</b>	Not applicable.
<b>Specific Gravity</b>	1 (Water = 1)	<b>Viscosity</b>	Not applicable.
<b>Vapor Pressure</b>	Not applicable.	<b>Solubility in water</b>	Insoluble in cold water.

<b>Vapor Density</b>	Not applicable.	<b>Odor</b>	Slight.
<b>Softening Range</b>	110 to 140°F (43 to 60°C)	<b>Other</b>	Not applicable.

<b>Section 10. Stability and Reactivity Data</b>	
<b>Chemical Stability</b>	This product is stable.
<b>Incompatibility with various substances</b>	None known.
<b>Hazardous Decomposition Products</b>	Not available.
<b>Hazardous Polymerization</b>	Will not occur.

<b>Section 11. Toxicological Information</b>	
<b>Acute Effects</b>	
<b>Eye Irritant</b>	Non-irritating to the eyes.
<b>Skin Sensitizer</b>	Non-sensitizer for skin.
<b>Skin Irritant</b>	Non-irritant for skin.
<b>Human Skin Patch</b>	Non-irritating, non-sensitizing
	<b>Oral (LD50):</b> >5000 mg/kg [Rats].
	<b>Dermal (LD50):</b> >5000 mg/kg [Rabbits].
	<b>Inhalation (LC50):</b> >5 mg/l [Rats] 4 hr.
	<b>Inhalation (LC50):</b> >20 mg/l [Rats] (Calculated) 1 hr.
<b>Chronic Effects</b>	<b>CARCINOGENIC EFFECTS:</b> None present. <b>MUTAGENIC EFFECTS:</b> None detected in Ames assay.
<b>Additional Information</b>	The results obtained from a Xerox sponsored Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1 mg/m <sup>3</sup> ) exposure level (i.e. the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25% of the animals at the middle (4 mg/m <sup>3</sup> ) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m <sup>3</sup> ) 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.
<b>Special Remarks</b>	This material has been evaluated by Xerox Corporation. The toxicity

	data presented in this section is based on test results of similar xerographic toners.
<b>Toxic Effects in Humans</b>	No human data available.

<b>Section 12. Ecological Information</b>	
<b>Ecotoxicity</b>	<b>Aquatic (LC50):</b> >1000 mg/l (fathead minnows)
<b>BOD and COD</b>	Not available.
<b>Products of Biodegradation</b>	Not available.
<b>Bioaccumulation</b>	Not available.
<b>Toxicity of the Products of Biodegradation</b>	Not available.
<b>Special Remarks on the Products of Biodegradation</b>	No additional remark.

<b>Section 13. Disposal Considerations</b>	
<b>Waste information</b>	This material is not a hazardous waste per Federal Regulation 40 CFR 261 when disposed. Consult with the appropriate State and Local Waste Authorities for additional information. Incinerate only in a closed container.
<b>Waste stream</b>	Not available.

<b>Section 14. Transport Information</b>	
<b>US/DOT</b>	
<b>Proper Shipping Name</b>	Not applicable.
<b>Hazard Class</b>	Not a DOT controlled material (United States).
<b>DOT Identification Number</b>	Not applicable.
<b>Packing Group</b>	Not applicable.
<b>Canada/TDG Pin Number</b>	Not applicable.
<b>TDG Classification</b>	Not controlled under TDG (Canada).
<b>IMO/IMDG Classification</b>	Not controlled under IMDG.
<b>IATA Classification</b>	Not controlled under IATA.

<b>Section 15. Regulatory Information</b>	
<b>US Federal and State Regulations</b>	TSCA inventory: all ingredients are listed.
<b>WHMIS (Canada)</b>	Not controlled under WHMIS (Canada).
<b>Canadian Federal and Provincial Regulations</b>	No products were found.

<b>Section 16. Other Information</b>			
<b>HMIS (U.S.A.)</b>	Health Hazard	0	<b>National Fire Protection Association (U.S.A.)</b>
	Fire Hazard	3	
Reactivity	0		
Personal Protection	a		
<b>Special Remarks</b>	No additional remark.		
<b>Notice to Reader</b>			
<p><i>This product has been classified in accordance with OSHA and the hazard criteria of the CPR. The MSDS contains all the information required by OSHA and the CPR. Preparation of this document was completed by Xerox Corporation, Environment, Health and Safety.</i></p>			
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