XEROX

Material Safety Data Sheet

MSDS No.: G-4545
Date: 6/24/87
Revision: 3/3/90

Manufacturer:	Xerox Corporation 24600 Industrial Blvd. Hayward, CA. 94545	(Xerox Corp. Rochester, N.Y. 14644)	Emergency Tel. No. : Information Tel. No. :	(716) 422-2177 (800) 828-6571

Section I - Product Identification

Trade Names/Synonyms: Single-Strike Correctable Black Typewriter Ribbon

Part No. : 8R2942, 8R10300, 8R10307, 8R10314, 8R10321

Chemical Name: None

Ingredients	CAS No.
Polyethylene film ribbon (75-80%)	9002-88-4
Coating (15-20%)	
Resin*	------
Oils*	------
Pigments*	------

*Claimed as a trade secret by Xerox' supplier.

Section II - Emergency and First Aid

Eyes:	Flush thoroughly with water.
Skin:	Wash thoroughly with soap and water.
Inhalation:	N.A.
Ingestion:	Dilute stomach contents with several glasses of water.
Primary Route of Entry:	Skin
Symptoms of Overexposure:	Prolonged or repeated contact with skin may cause irritation.
Medical Conditions Generally Aggravated by Exposure:	None when used as described by product literature.
Additional Information:	Further information on file in Poisindex.

Section III - Toxicology and Health Information

This material has been evaluated by Xerox Corporation.

Oral LD_{50}:	None available
Dermal LD_{50}:	None available
Inhalation LC_{50}:	None available
Eye Irritation:	None available
Skin Sensitization:	None available
Skin Irritation:	None available
Human Patch:	None available
Mutagenicity:	No mutagenicity detected in the Ames Assay.
Carcinogens:	None present
Aquatic LC_{50}:	None available
Additional Information:	None

TLV:	N.A.
PEL:	N.A.
XEL[1]:	N.A.

[1]XEL - Xerox Exposure Limit

Section IV - Physical Data

Appearance/Odor:	Blackfilm/odorless	**Softening Range:**	N.A.
Boiling Point:	N.A.	**Melting Point:**	110 C
Solubility in Water:	N.A.	**Specific Gravity (H_2O = 1):**	N.A.
Evaporation Rate:	N.A.	**Vapor Pressure (mm Hg):**	N.A.
Vapor Density (Air = 1):	N.A.	**pH =**	N.A.
Volatile 0%(Wgt.)	0 %(Vol.)		

Section V - Fire and Explosion Data

Flash Point (Method Used): 250°F

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

Extinguishing Media: Dry chemical, foam, carbon dioxide.

Special Fire Fighting Procedures: Use water as last resort.

Fire and Explosion Hazards: None

Section VI - Reactivity Data

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

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

Incompatibility (Materials to Avoid): Strong oxidizers

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:	None required when used as intended in Xerox equipment.

Section VIII - Special Precautions

Handling and Storage: Do not use or store near heat or strong oxidizers.

Conditions to Avoid: None

Section IX - Spill, Leak, and Disposal Procedures

For Spills or Leakage: N.A.

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

Hazard Classification: N. A. **ID Number:** N. A.

XEROX

Material Safety Data Sheet

MSDS No.: 0072
Date: Mar. 16, 1988
Revision: Feb. 12,1989

Manufacturer: Xerox Corporation
Rochester, New York 14644

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

Section I - Product Identification

Trade Names/Synonyms: 1012/5012/5014 Dry Ink Cartridge **Part No. :** 6R257, 6R259

Chemical Name: None

Ingredients	CAS No.
Styrene/Acrylate Polymer (45-50%)	25767-47-9
Iron Oxide (45-50%)	1309-38-2
Polypropylene Wax (1-5%)	9003-07-0
Quaternary Ammonium Salt (1-3%)	102561-46-6
Amorphous Silica (< 1%)	7631-86-9

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}: >5 g/kg (Rats) practically non-toxic.[1]
Dermal LD_{50}: >2 g/kg (Rats) practically non-toxic.[1]
Inhalation LC_{50}: >5 mg/l (Rats) practically non-toxic[1,2]
Eye Irritation: Non-irritating
Skin Sensitization: Not a sensitizer[1]
Skin Irritation: Not an irritant[1]
Human Patch: Non-irritating, non-sensitizing
Mutagenicity: No mutagenicity detected in Ames Assay.
Carcinogens: None present
Aquatic LC_{50}: Not tested

TLV: 10 mg/m³ (Total Dust)

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

XEL[3]: 2.5 mg/m³ (Total Dust)
0.4 mg/m³ (Respirable Dust)

Additional Information: Some of the information noted above is based on toxicity data for similar toners. 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]Data from testing of similar materials [2]Not tested to the highest concentration [3]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: N.A.
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.

XEROX

Material Safety Data Sheet

MSDS No.: C-0315
Date: 11/19/85
Revision: 2/20/90

Manufacturer:	Xerox Corporation Rochester, N.Y. 14644	**Emergency Tel. No. :** **Information Tel. No. :**	(716) 422-2177 (800) 828-6571

Section I - Product Identification

Trade Names/Synonyms: 1012 Photoreceptor **Part No. :** 13R8, 13R500 (XCI)

Chemical Name: None

Ingredients	CAS No.
Polymer binders Photoconductive compounds Additives	

*The specific chemical identities are trade secrets.

Section II - Emergency and First Aid

Eyes:	Not applicable
Skin:	Wash with soap and water.
Inhalation:	Not applicable
Ingestion:	Not applicable
Primary Route of Entry:	Skin
Symptoms of Overexposure:	None
Medical Conditions Generally Aggravated by Exposure:	None when used as described by product literature.
Additional Information:	See Sections V through IX. Further information on file in Poisindex.

Section III - Toxicology and Health Information

This material has been evaluated by Xerox Corporation.

Oral LD_{50}:	>5 g/kg (Rats) practically non-toxic.	**TLV:**	N.A.
Dermal LD_{50}:	>2 g/kg (Rabbits) practically non-toxic.	**PEL:**	N.A.
Inhalation LC_{50}:	N.A.	**XEL[1]:**	N.A.
Eye Irritation:	Not an irritant.		
Skin Sensitization:	Not a sensitizer.		
Skin Irritation:	Not an irritant.		
Human Patch:	Non-irritating, non-sensitizing		
Mutagenicity:	Non-mutagenic in Ames Assay.		
Carcinogens:	None present		
Aquatic LC_{50}:	Not determined		
Additional Information:	Information given above is based on toxicity data of constituents.		

[1]XEL-Xerox Exposure Limit

Section IV - Physical Data

Appearance/Odor:	Solid/odorless	**Softening Range:**	N.A.
Boiling Point:	N.A.	**Melting Point:**	N.A.
Solubility in Water:	Insoluble	**Specific Gravity (H_2O = 1):**	N.A.
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, carbon dioxide, foam.

Special Fire Fighting Procedures: When in a machine, treat as an electrical fire.

Fire and Explosion Hazards: Exposure to high temperatures can result in melting and pyrolysis. Fumes may cause respiratory symptoms. Delayed effects may occur up to 72 hours.

Section VI - Reactivity Data

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

Hazardous Decomposition Products: None

Incompatibility (Materials to Avoid): Organic solvents

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: None required when used as intended in Xerox equipment.

Section VIII - Special Precautions

Handling and Storage: Under no circumstances should pumicing compounds or mechanical abrasion be used on this photoreceptor.

Conditions to Avoid: Avoid exposure to high temperatures.

Section IX - Spill, Leak, and Disposal Procedures

For Spills or Leakage: None

Waste Disposal Method: Casual disposal leading to incineration or regular landfill according to local, state, and federal ordinances.

Section X - Transportation Information

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