XEROX **Material Safety Data Sheet**

MSDS No: A-1033
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Manufacturer: Xerox Corporation
Rochester, NY 14644

Telephone # (s): *Safety Information: (800) 828-6571*
Health Emergency: (585) 422-2177
Transportation Emergency (Chemtrec): (800) 424-9300

Section I - Product Identification

Trade Names/Synonyms: Phaser 3428/ Phaser 3635MFP Toner

Part No.: 106R1245, 1061246, 108R792, 108R793, 108R794, 108R795, 108R796

WHMIS Status: This is not a WHMIS controlled product

Ingredients (% by wt.)	CAS No.
Polyester resin (>80%)	Proprietary
Carbon black (<10%)	1333-86-4
Additives (<5%)	Propietary

Section II - Emergency and First Aid

Primary Route of Entry:
Inhalation

Eyes:
Flush with water.

Skin:
Wash with soap and water.

Inhalation:
Remove from exposure.

Ingestion:
Dilute stomach contents with several glasses of milk or water.

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:
None.

Section III - Toxicology and Health Information

The toxicity data noted below is based on the test results of this toner or similar reprographic materials:

Oral LD_{50}:	>5 g/kg (rats) practically non-toxic.
Dermal LD_{50}:	>5 g/kg (rabbits) practically non-toxic.
Inhalation LC_{50}:	>5 mg/l (rats, 4 hr exposure)practically non-toxic.
	>20 mg/l (calculated 1 hr exposure) non-poisonous, DOT.
Eye Irritation:	Not an irritant
Skin Sensitization:	Not a sensitizer.
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Human Patch:	Non-irritating, non-sensitizing
Mutagenicity:	No mutagenicity detected in Ames assay.
Carcinogens:	None present
Aquatic LC_{50}:	>1000 mg/l (fathead minnows) non-toxic.

TLV:	10 mg/m^3 (inhalable particles)
	3 mg/m^3 (respirable particles)
PEL:	15 mg/m^3 (total dust)
	5 mg/m^3 (respirable dust)
STEL:	Not established
Ceiling:	Not established
XEL[1]:	2.5 mg/m^3 (total dust)
	0.4 mg/m^3 (respirable dust)

Additional Information: The results obtained from a Xerox sponsored Chronic Toner Inhalation Study demonstrated no lung change in rats for the lowest (1mg/m^3) exposure level (the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25% of the animals at the middle (4mg/m^3) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m^3) 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.

[1]XEL-Xerox Exposure Limit

Section IV - Physical Data

Appearance/Odor:	Fine powder (black, green, blue, red, Yellow or other colors) / faint odor	**Softening Range:**	120°F - 140°F
Boiling Point:	Not applicable	**Melting Point:**	N.D.
Solubility in Water:	Negligible	**Specific Gravity (H_2O=1):**	~1
Evaporation Rate:	Not applicable	**Vapor Pressure (mm Hg):**	Not applicable
Vapor Density (Air=1):	Not applicable	**pH:**	Not applicable
Volatile:	Not applicable % (Wt.) Not applicable % (Vol.)		

Section V - Fire and Explosion Data

Flash Point (Method Used):	Not applicable
Flammable Limits:	LEL: Not applicable, UEL: Not applicable
NFPA 704:	Consumer Use and Storage ("Cartridge" / "Bottle") -- Health - 0, Fire -1, Reactivity – 0 Manufacturing Use and Storage ("Bulk Containers") -- Health - 0, Fire -3, Reactivity - 0
Extinguishing Media:	*Avoid direct stream* -- gently apply water mist, water fog, or foam
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, it can form explosive mixtures when dispersed in air.

Section VI -Reactivity Data

Stability:	Stable
Hazardous Polymerization:	Will Not Occur
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:	Keep container tightly closed.
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 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:	This material is not a hazardous waste according to Federal Regulation 40 CFR 261 when disposed. State and Local requirements may, however, be more restrictive. Consult with the appropriate State and Local waste disposal authorities for additional information. Incinerate only in a closed container.

Section X - Transportation Information

This product is <u>not</u> regulated as a hazardous material