



MINOLTA

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MATERIAL SAFETY DATA SHEET

SECTION 4 - TOXICOLOGY AND HEALTH INFORMATION

**HEALTH HAZARDS :** Toner presents a low hazard for usual occupational settings. Based on available data, human exposure to toner has been shown to cause minimal respiratory tract irritation as may occur with large amounts of any non-toxic dusts. The results of one animal study where rats inhaled toner that was ten times more respirable than commercially available toner were observed to have no lung changes at low exposures (the most relevant level to potential human exposure). At higher levels a slight degree of lung fibrosis was observed due to excessive amounts of dust retained in the lungs for a prolonged interval.

**ORAL LD<sub>50</sub>** : >5.0 g/kg (Rats) \*  
**DERMAL LD<sub>50</sub>** : >2.0 g/kg (Rats) \*  
**INHALATION LC<sub>50</sub>** : >0.74mg/l (Rats) for 4-hours \*  
(This was the highest attainable concentration. There were no deaths during the study.)  
**EYE IRRITANT** : Not an irritant (Rabbit) \*  
**SKIN IRRITANT** : Not an irritant (Rabbit) \*  
**SKIN SENSITIZER** : n. av.  
**MUTAGENICITY** : No mutagenicity detected in Ames Assay  
**CARCINOGENICITY** : NTP : Not listed      IARC MONOGRAPHS : Not listed      OSHA REGULATED : Not listed

SECTION 5 - PHYSICAL DATA

**APPEARANCE AND ODOR** : Black powder, faint odor  
**BOILING POINT (°C)** : n. sp.      **SPECIFIC GRAVITY (d20=1)** : 1.2  
**VAPOR PRESSURE (mmHg)** : n. sp.      **EVAPORATION RATE** : n. sp.  
**VAPOR DENSITY (AIR=1)** : n. sp.      **MELTING POINT (°C)** : n. sp.  
**SOLUBILITY IN WATER** : Negligible      **pH** : n. sp.

SECTION 6 - FIRE AND EXPLOSION DATA

**FLASH POINT & METHOD** : n. sp.  
**FLAMMABLE LIMITS IN AIR** : LEL : n. sp.      UEL : n. sp.  
**EXTINGUISHING MEDIA** : Water, foam, dry chemical  
**SPECIAL FIREFIGHTING PROCEDURES** : Avoid inhalation of smoke.

**FIRE AND EXPLOSION HAZARDS** : If dispersed in air, Toner, like most finely divided organic powders, may form an explosive mixture.

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**SECTION 7 - REACTIVITY DATA**

STABILITY : UNSTABLE : STABLE : X  
CONDITIONS TO AVOID : None

INCOMPATIBILITIES : None

HAZARDOUS DECOMPOSITION BYPRODUCTS : Products of combustion are toxic. Avoid breathing of smoke.

HAZARDOUS POLYMERIZATION : MAY OCCUR : WILL NOT OCCUR : X  
CONDITIONS TO AVOID : None

**SECTION 8 - PERSONAL PROTECTION AND CONTROLS**

VENTILATION : LOCAL EXHAUST : n. sp.  
MECHANICAL (GENERAL) : n. sp.

RESPIRATORY PROTECTION : None required when used as intended in Minolta equipment.  
PROTECTIVE GLOVES : None required when used as intended in Minolta equipment.  
EYE PROTECTION : None required when used as intended in Minolta equipment.  
WORK PRACTICES : None

**SECTION 9 - SAFE HANDLING AND USE PRECAUTIONS**

HANDLING AND STORAGE : None

**SECTION 10 - SPILL, LEAK AND DISPOSAL PROCEDURES**

FOR SPILLS AND LEAKAGE : If spilled, sweep up or vacuum.  
WASTE DISPOSAL METHOD : Waste may be disposed or incinerated under conditions which meet all federal, state and local environmental regulations.

**SECTION 11 - TRANSPORTATION**

D.O.T. SHIPPING NAME : Not regulated HAZARD CLASSIFICATION : n. sp. I.D. NUMBER : n. sp.

\* : Based on data for other Minolta toners with the same or similar ingredients  
n. sp. : Not applicable  
n. av. : Not available

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