

Material Safety Data Sheet #58367401

52114501 Print Cartridge Toner

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For more information, contact Oki Data at 2000 Bishops Gate Blvd., Mount Laurel, NJ, 08054-4620.

Emergency Information: call 1-800-654-3282; US & Canada Only.

Emergency First Aid

Toner swallowed (ingested).

Rinse out mouth with water and give several glasses of water to drink. Seek medical attention.

Toner inhaled.

Remove person to fresh air. Rinse mouth with water.

Toner gets in the eyes.

Flush eyes with large quantities of cool water for 15 minutes, keeping the eyelids open with fingers. Seek medical attention.

Toner gets on the skin.

Wash toner off the skin with plenty of cool water and soap.

Note: Small amounts of toner on skin or clothing can easily be removed with soap and *cold* water. Hot water makes toner harder to remove.

Hazardous Ingredients

Polyester (40-50% by weight)

CAS#: Not available

OSHA PEL: Not available.

Magnetite (40-50% by weight)

CAS#: 1309-38-2

OSHA PEL: Not available.

Propylene Wax (1-5% by weight)

CAS#: Not available

OSHA PEL: Not available.

Ethylene/Propylene Resin (1-5% by weight)

CAS#: Not available

OSHA PEL: Not available.

Amorphous Silica (1-5% by weight)

CAS#: 7631-86-9

OSHA PEL: Not available.

Physical Data

Physical State: Solid

Melting/Freezing Point: Not available

Boiling Point: Not applicable

pH: Not available.

Vapor Pressure: Not applicable

Vapor Density (Air=1): Not available

Evaporation Rate (Butyl Acetate=1): Not available

Specific Gravity (H₂O=1): Not available

Solubility in Water: Negligible

Solubility in Solvents: Not available

Coefficient of Water/Oil Distribution: Not available

Appearance and Odor: Black powder, faint odor

Odor Threshold: Not available

Fire and Explosion Hazard Data

Flash Point (O°C): Not applicable.

Flammability: Not flammable under conditions of use.

Flammable Limits

Lower Explosive Limit: Not applicable

Upper Explosive Limit: Not applicable

Auto-ignition Temperature: Not applicable

Explosion Data

Like most organic materials in powder form, the toner can form explosive mixtures when dispersed in air.

Sensitivity to Mechanical Impact: Not available

Sensitivity to Static Discharge: Not available.

Extinguishing Media: Water spray, foam, dry chemicals.

Special Fire Fighting Procedures: In case of fire, use extinguishing media. When mounted in the printer, treat as an electrical fire.

Hazardous Combustion Products: Not applicable

Toxicological Properties

Routes of Entry: Inhalation, Ingestion, Eyes, Skin

Effects of Acute Exposure (based on toxicity data for similar materials and ingredients):

Swallowed LD₅₀ (rat): > 5000 mg/kg

Skin LD₅₀ (rabbit): > 5000 mg/kg

Inhaled LC₅₀ (rat): > 5 mg/L/4hr

Effects of Chronic Exposure (based on toxicity data for similar materials and ingredients): The results obtained from a sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1 mg/m³) 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/m³) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m³) 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 Oki toner, and would not be functionally suitable for Oki equipment.

Exposure Limits, ACGIH TLV[†]:

- Total: 10 mg/m³
- Respirable: 3 mg/m³

Irritancy: Not an irritant.[†]

Sensitization (skin, guinea pig): Not a sensitizer.[†]

Carcinogenicity: Not classified as "Carcinogens"[†]

IARC: Refer to IARC Monographs on the Evaluation of Carcinogenic Risks to Humans (WHO International Agency for Research on Cancer).

NTP: Refer to National Toxicology Program (NTP) Report on Carcinogens (NTP).

OSHA: Not available.

[†] Based on toxicity data for similar materials and ingredients.

Reproductive Toxicity: Not classified as "Reproductive and Development chemicals."

Teratogenicity: Not available.

Mutagenicity (Ames Assay): Negative.

Name of Toxicologically Synergistic products: Not available.

Reactivity Data

Stability: Stable

Conditions to Avoid: Not available

Polymerization: Not available

Hazardous Decomposition or Byproducts: Not available

Incompatibility: Not available

Preventive Measures

Personal Protective Equipment

Respiratory Protection: Not normally required. For large spills (such as in bulk processing facilities), use dust respirator during cleanup.

Protective Gloves and/or Eye Protection: Not normally required. For large spills (such as in bulk processing facilities), use rubber gloves and safety goggles during cleanup.

Engineering Controls

Ventilation: Outside of normal ventilation, not normally required. In bulk processing facilities, local exhaust ventilation may be required.

Other Protective Equipment and/or Hygienic Practices: None

Spill Cleanup

Small Spills

- 1 Remove sources of ignition.
- 2 Sweep up or soak up with a damp (cold water) cloth.

Large Spills (such as in processing facilities)

- 1 Remove sources of ignition.
- 2 Keep unnecessary and unprotected personnel away from area.
- 3 Wear protective gear: respirator, rubber gloves, goggles.
- 4 After removing the bulk of the spill, wipe up remainder with a wet (cold water) cloth.
- 5 Place waste material in a closed container.

Waste Disposal

Follow appropriate federal, state and local regulations.

Precautions

Precautions for Handling or Storage: Do not incinerate toner or a print cartridge. Do not disassemble a print cartridge. Keep in a cool, dry, well-ventilated place. Keep out of reach of children.

Other Precautions: None

Shipping Information

Special Shipping Information: Transport in accordance with national and local regulations.

Preparation Date of MSDS

Date: April 18, 2007

Prepared by:

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