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MSDS No.: MFP-2153

Prepared date:11-Apr-2005

Revised Date: 22-Nov-2006

1. PRODUCT AND COMPANY IDENTIFICATION Product Name: TONER TN210M used for: bizhub C250/C250P, C252/C252P, NEC IT25C3

Supplier Identification:

Product Name: TONER TN210M

Konica Minolta Business Solutions U.S.A., Inc. 100 Williams Drive, Ramsey, New Jersey 07446, U.S.A. Telephone: 201-825-4000

Emergency Telephone No. CHEMTREC Telephone: 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS Substance [] Preparation [X]

Major Ingredients:

[Generic Name]	[CAS No.]	[응]
Styrene acrylic resin	+++	80-90
Wax	+++	10-20
Organic pigment 1	+++	1-10
Organic pigment 2	+++	1-10
Titanium compound	12060-59-2	1-10
Amorphous silica	7631-86-9	< 1
Titanium oxide	13463-67-7	< 1

+++: Supplier's confidential information

Hazardous Ingredients: None present

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3. HAZARDS IDENTIFICATION

irritation may occur as with exposure to large amount of any non-toxic dust.

Eye Effect: None currently known.

Skin Effect: None currently known.

Chronic Effects: Prolonged inhalation of excessive dusts may cause lung damage. Use of this product, as intended, does not result in inhalation of excessive dust.

Environment Hazards: No data are available on the adverse effects of this product on the environment.

Specific Hazards: Dust explosion(like most finely divided organic powders)

4. FIRST-AID MEASURES

Ingestion: Wash out mouth with water. Drink one or two glasses of water. If symptoms occur, get medical attention.

Inhalation: Move victim to fresh air immediately. If symptoms occur, get medical attention.

Eye Contact: Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.

Skin Contact: Wash with water and mild soap.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO2, water spray, foam and dry chemical Extinguishing Media to Avoid: Full water jet

Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, may form an explosive mixture.

Protection of Firefighters: Use self-contained breathing apparatus(SCBA).

6.	ACCIDENTAL RELEASE MEASURES
	Personal Precautions: None
	Environmental Precautions: None
	Methods for Cleaning Up: Wear personal protective equipment
	(See Section 8). Vacuum or sweep material and place in a bag and hold
	for waste disposal. Use vacuum $equipped$ with High Efficiency Particulate
	Air(HEPA) filter. Vacuum should be electrically bonded and grounded
	to dispel static electricity. To avoid dust generation, do not sweep
	dry.

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7. HANDLING AND STORAGE Handling Technical Measures: None Precautions: Do not breathe dust. Avoid contact with eyes. Safe Handling Advice: Try not to disperse the particulates. Storage Technical Measures: None Storage Conditions: Keep container closed. Store in a cool and dry place. Keep out of reach of children. Incompatible Products: None Packaging Materials: Bottles or Cartridge designated by Konica Minolta. 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Engineering Measures Ventilation: None required with intended use. Control Parameters(As total dust) OSHA-PEL(USA): 15mg/m3 ACGIH-TLV(USA): 10mg/m3 DFG-MAK(GER): 4mq/m3Worksafe-TWA(Austl.): 10mg/m3 Personal Protective Equipment Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required. Hygiene Measures: Wash hands after handling. 9. PHYSICAL AND CHEMICAL PROPERTIES Appearance Physical State: Solid Color: Magenta Form: Powder (mean dia. is 5-10um by volume) Almost odorless Odor: DН Not applicable Boiling Point(°C): Not applicable Melting Point(°C): Around 125C(275F) (Softening Point) Flash Point(°C): Not applicable Ignition Temperature(°C): No data available No data available Explosion Properties: Vapor Pressure: Not applicable Specific Gravity: 1.2 Solubility: Insoluble in water. Partition Coefficient, n-Octanol/Water: Not applicable

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10. STABILITY AND REACTIVITY Stability: Stable except above 200C(392F). Hazardous Reactions: Dust explosion, like most finely divided organic powders. Conditions to avoid: Electric discharge, throwing into fire. Materials to Avoid: Oxidizing materials. Hazardous Decomposition Products: CO, CO2, NOx and smoke. Hazardous Polymerization: Will not occur. 11. TOXICOLOGICAL INFORMATION Acute Toxicity: Ingestion(oral), LD50(mg/kg): >2000 (Rat) Dermal, LD50(mg/kg): No data available Inhalation, LC50(mg/l): >4.99 (Rat,4hour)(This was the highest attainable concentration.) Eye irritation: Minimal irritant (Rabbit) Skin irritation: Non irritant (Rabbit) Skin sensitizer: Non sensitizer (Guinea pig) (*= Based on data for other Konica Minolta Products with similar ingredients) Local Effects: see Chronic Toxicity or Long term Toxicity Chronic Toxicity or Long Term Toxicity: Prolonged inhalation of excessive dust may cause lung damage. It is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, does not result in inhalation of excessive dust. In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of rats in the high concentration (16mg/m^3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle(4mg/m³) exposure group. But no pulmonary change was reported in the lowest $(1mg/m^3)$ exposure group, the most relevant level to potential human exposures. Carcinogenicity IARC Monographs: Not listed Not listed NTP(USA): OSHA Regulated(USA): Not listed Mutagenicity: Negative (AMES test)

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12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.
Ecotoxicity: No data available
Mobility: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available

13. DISPOSAL CONSIDERATION

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

14. TRANSPORT INFORMATION

Information on Code and Classifications According to International Regulations

UN Classification: None

15. REGULATORY INFORMATION
US Information
Information on the label: Not required
TSCA(Toxic Substances Control Act):
All chemical substances in this product comply with all applicable
rules or order under TSCA.
California Proposition 65:
This product contains no chemical substances subject to California
Proposition 65.
EU Information
Information on the label (1999/45/EC and 67/548/EEC): Not required
Article14 (2.1) of Directive 1999/45/EC is not applicable to this
product.

16. OTHER INFORMATION

HMIS Rating: The National Paint and Coating Association(USA): Health: 1 Flammability: 1 Reactivity: 0 Recommended Uses: Toner for Electrophotographic Equipment Revision Information: Regular revision on revised date.

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Literature References: ANSI Z400.1-1993 ISO 11014-1 Commission Directive 91/155/EEC

H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka, and R.Mermelstein(1991) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

Restrictions:

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