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MSDS No.: PPC-0564

Product Name: CF TONER M2 (MAGENTA) Prepared date:12-Jan-2000

Revised Date: 22-Aug-2002

1. PRODUCT AND COMPANY IDENTIFICATION Product Name: CF TONER M2 (MAGENTA) used for: CF9001

Supplier Identification: Minolta Europe GmbH Minoltaring 11, D-30855 Langenhagen, Germany Telephone: +49-(0)511-7404-272 Facsimile: +49-(0)511-7404-346

Emergency Telephone: Information centre specialized on symptoms of poisoning Telephone: +49-30-19240

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

Major Ingredients: [Generic Name] Polyester resin Organic pigment Titanium compound Amorphous silica Titanium oxide

[CAS No.]	[%]	
+++	>90	
99402-80-9	1- 5	
+++	1- 5	
7631-86-9	1- 5	
13463-67-7	< 1	

+++: Supplier's confidential information

Hazardous Ingredients: None present



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3. HAZARDS IDENTIFICATION Classification : Not classified as dangerous. (1999/45/EC) Most Important Hazards and Effects of the Products For Human Health: This toner is not classified as a human carcinogen. No symptoms expected with intended use. For the Environment: No data are available on the adverse effects of this product on the environment. For Others: None Specific Hazards: Dust explosion (likemost finely divided organic powders) 4. FIRST-AID MEASURES Symptoms of Overexposure: No symptoms expected with intended use. Routes of Entry: Eye contact, inhalation, ingestion Information Inhalation: If symptoms are experienced, removes our ceof contamination or move victim to fresh air and obtain medical advice. Skin Contact: Flush with gently flowing water (preferably lukewarm) and soap for 15 minutes or until particle is removed. If irritation does occur, obtain medical advice. Eye Contact: Donotallowvictimtorubeye(s).Flushwithgentlyflowing water (preferably lukewarm) for 15 minutes or until particle is removed. Have victim look right and left, and, then up and down. If irritation does occur, obtain medical attention. DO NOT attempt to manually remove anything stuck to the eye(s). Ingestion: If irritation or discomfort occurs, obtain medical attention immediately. Note to Physician: None 5. FIRE-FIGHTING MEASURES Suitable Extinguishing Media: CO2, water spray, foam and dry chemical Extinguishing Media to Avoid: Full water jet Special Firefighting Procedures: None

Fire and Explosion Hazards: Ifdispersedinair,likemostfinelydivided 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: Wipe off with paper or cloth. DO NOT use vacuum cleaner when a large amount is released. It, like most finely divided organic powders, may create a dust explosion.



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Product Name: CF TONER M2 (MAGENTA) Prepared date:12-Jan-2000 Revised Date: 22-Aug-2002 7. HANDLING AND STORAGE Handling Technical Measures: None Precautions: None Safe Handling Advice: Try not to disperse the particles. 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 Packing Materials: Bottles or Cartridge designated by 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): 4mg/m3 Worksafe-TWA(Austl.): 10mg/m3 Personal Protective Equipment None required when used as intended in Minolta equipment. Other: For use other than normal customer-operating procedures (such as in bulk toner processing facilities), goggles and respirators may be required. Hygiene Measures: Wash hands after handling. 9. PHYSICAL AND CHEMICAL PROPERTIES Appearance Form: Powder Physical State: Solid Color: Red Odor: Faint odor 5 - 15 Particle Size(µm): Not applicable pH: Boiling Point: Not applicable Melting Point(°C): No data available Softening Point(°C): 95-110 Flash Point: Not applicable Ignition Temperature(°C): No data available Explosion Properties: No data available Vapor Pressure: Not applicable (bulk density: 0.4) Density(g/cm^3): 1.1 Solubility in water: Negligible Oxidizing Properties: No data available

Partition Coefficient, n-Octanol/Water: Not applicable



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11. TOXICOLOGICAL INFORMATION

Health Effects from Exposure: No symptoms expected with intended use. Toxicological Data

Acute Toxicity:

Inhalation, LC50(mg/l): >5.02 (Rat,4hour) *

(This was the highest attainable concentration.)

Ingestion(oral), LI	D50(mg/kg): >2000 (Rat) *
Dermal, LD50(mg/kg)): No data available
Eye irritation:	Minimal irritant (Rabbit) *
Skin irritation:	Non irritant (Rabbit) *
Skin sensitizer:	Non sensitizer (Guinea pig) *
Mutagenicity:	Negative * (AMES test)

(*= Based on data for other 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($4mg/m^3$) 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
NTP(USA):	Not	listed
OSHA Regulated(USA):	Not	listed



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12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

13. DISPOSAL CONSIDERATION Appropriate Methods of Disposal Preparation(community provisions): Waste may be disposed or incinerated under conditions which meet all federal, state and local environmental regulations. Contaminated Packaging: Waste may be disposed or incinerated under conditions which meet all federal, state and local environmental regulations. Precautions: Do not throw the toner cartridge or toner into an open flame. The hot toner may scatter and cause burns or other damage. 14. TRANSPORT INFORMATION Special Precautions: None 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. SARA(Superfund Amendments and Reauthorization Act) Title III 302 Extreme Hazardous Substance: None 311/312 Hazard Categories: None 313 Reportable Ingredients: None 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): Symbol & Indication: Not required R-Phrase: Not required S-Phrase: Not required 76/769/EEC: All chemical substances in this product comply with all applicable rules or order under 76/769/EEC. Article 14(2.1) of Directive 1999/45/EC is not applicable to this product.



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NFPA Hazard Rating: The National Fire Protection Agency(USA): Health: 1 Flammability: 1 Reactivity: 0 HMIS Rating: The National Paint and Coating Association(USA): Health: 1 Flammability: 1 Reactivity: 0 Recommended Uses:

Toner for Photocopier CF9001

Restrictions:

Information on this data sheet represents our current data and the best opinion as to the proper use in handling of this product under normal conditions specified in our User's Manual. However, neither Minolta Co.,Ltd. nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we do not guarantee that these are the only hazards which exist.

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.