

Page:1/6

MSDS No.: PRT-2135

Product Name: TONER (MAGENTA) Prepared date: 28-Jun-2004 Revised Date: 30-Mar-2005 1. PRODUCT AND COMPANY IDENTIFICATION Product Name: TONER (MAGENTA) used for: magicolor 2400series/2405series/2430series/2435series/2450series/ 2480series/2490series Supplier Identification: Konica Minolta Business Technologies, INC. Marunouchi Center Building 1-6-1, Marunouchi, Chiyoda-Ku, Tokyo 100-0005 JAPAN Telephone: +81-3-6250-2250 Facsimile: +81-3-3218-1379 Contact Point: Chemical Products Development Center Chemical Products Business Headquaters No.2970 ishikawa-machi, hachioji-shi Tokyo 192-8505, Japan Tel: +81-426-60-9093 Fax: +81-426-60-9094 2. COMPOSITION / INFORMATION ON INGREDIENTS Substance [] Preparation [X] Major Ingredients: [Generic Name] [CAS No.] [%] Styrene acrylic resin 89-90 +++ Wax +++ 10-20 Organic pigment 1 +++1-10 Organic pigment 2 +++1-10 7631-86-9 Amorphous silica 1-10 Titanium compound 12060-59-2 1-10 +++: Supplier's confidential information

Hazardous Ingredients: None present



Page:2/6

MSDS No.: PRT-2135

Product Name: TONER (MAGENTA)

Prepared date: 28-Jun-2004 Revised Date: 30-Mar-2005

3. HAZARDS IDENTIFICATION

Emergency Overview: Magenta powder (mean dia. is 5-10um by volume). Slight mild odor Classification: Not classified as dangerous. (1999/45/EC) Most Important Hazards and Effects of the Products

Ingestion Effect: None currently known.

Inhalation Effect: None currently known. Minimal respiratory tract 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.

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 $ ext{equipped}$ with $ ext{High}$ $ ext{Efficiency}$ $ ext{Particulate}$		
Air(HEPA) filter. Vacuum should be electrically bonded and grounded			
	to dispel static electricity. To avoid dust generation, do not sweep		
	dry.		



Page:3/6

MSDS No.: PRT-2135 Product Name: TONER (MAGENTA) Prepared date: 28-Jun-2004 Revised Date: 30-Mar-2005 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) Odor: Slight mild odor ΡH 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



Page:4/6

MSDS No.: PRT-2135

Product Name: TONER (MAGENTA)

Prepared date:28-Jun-2004 Revised Date: 30-Mar-2005

10. STABILITY AND REACTIVITY

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($4mg/m^3$) 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
Mutagenicity:		Negative * (AMES test)



Page:5/6

MSDS No.: PRT-2135

Product Name: TONER (MAGENTA)

Prepared date: 28-Jun-2004 Revised Date: 30-Mar-2005

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.



Page:6/6

MSDS No.: PRT-2135

Product Name: TONER (MAGENTA)

Prepared date: 28-Jun-2004 Revised Date: 30-Mar-2005

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:

The above information is believed to be accurate and represents the best information currently available to Our Corporation. However, Our Corporation makes no warranty with respect to such information, and Our Corporation assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.