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MSDS No.: PRT-0094

Product Name: TONER (Black)

Prepared date:2-Oct-2007 Revised Date: 8-Dec-2007

1. PRODUCT AND COMPANY IDENTIFICATION Product Name: TONER (Black) used for: PagePro 4650EN

Supplier Identification:

Konica Minolta Business Solutions Europe GmbH Europaallee 17, 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. HAZARDS IDENTIFICATION

Classification: Not hazardous in accordance with NOHSC Australia criteria.

Emergency Overview: Black powder. Faint odor

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



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| 3. COMPOSITION/INFORMATION ON INGREDIE Substance [] Preparation [X | - | |
|--|-----------|-------|
| Major Ingredients: | | |
| [Generic Name] | [CAS No.] | [%] |
| Polyester resin | +++ | 40-50 |
| Magnetite | 1309-38-2 | 40-50 |
| Ethylene/propylene copolymer | +++ | 1-5 |
| Stylene/acrylate resin and olefin resin | +++ | 1-5 |
| Amorphous silica | 7631-86-9 | 1-5 |
| Hazardous Ingredients: None present | | |
| FIRST-AID MEASURES Ingestion: Wash out mouth with water. If symptoms occur, get medical at Inhalation: Move victim to fresh a get medical attention. | tention. | - |

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).



MATERIAL SAFETY DATA SHEET Page:3/6

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| 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. | | |
|--|--|--|
| 7. HANDLING AND STORAGE | | |
| Handling | | |
| Technical Measures: None Drogoutions: Do not broathe dust Avoid contact with ever | | |
| 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): 4mg/m3 Worksafe-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 PROPERT | ES | |
| Appearance Physical State: Solid | Color: Black | |
| Form: Powder | COIDI · BIACK | |
| Odor: | Faint odor | |
| PH | 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: | NU UALA AVAIIADIE | |
| Vapor Pressure: | Not applicable | |



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Product Name: TONER (Black) Prepared date: 2-Oct-2007 Revised Date: 8-Dec-2007 1.7 Specific Gravity: Solubility: Insoluble in water. Partition Coefficient, n-Octanol/Water: Not applicable 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, and smoke. Hazardous Polymerization: Will not occur. 11. TOXICOLOGICAL INFORMATION Acute Toxicity: Ingestion(oral), LD50(mg/kg): >5000 (Rat) * Dermal, LD50(mg/kg): >5000 (Rabbit) * Inhalation, LC50(mg/l): >4.1 (Rat,4hour) * Eye irritation: Non irritant (Rabbit) * Skin irritation: Non irritant (Rabbit) * Non sensitizer (Guinea pig) * Skin sensitizer: (*= Based on data for other 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)



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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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