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MSDS No.: MFP-2281

Product Name: TONER TN312C

Prepared date:10-Jul-2006 Revised Date: 21-Jul-2006

1. PRODUCT AND COMPANY IDENTIFICATION Product Name: TONER TN312C used for: C352/C300/C352P

Supplier Identification:

Konica Minolta Business Solutions Australia Pty. Ltd. 22 Giffnock Avenue, North Ryde NSW 2113, Australia Telephone: (02)9878-5333 Facsimile: (02)9888-1972

Contact Point

National Technical Manager Telephone: (02)8873-6677 Facsimile: (02)9886-0348 For emergency enquiries, please contact Konica Minolta Australia during Monday to Friday from 9.00am - 5.00pm.

2. HAZARDS IDENTIFICATION Classification: Not hazardous in accordance with NOHSC Australia criteria.

Emergency Overview: Cyan powder (mean dia. is 5-10um by volume). Almost odorless

powders)



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

Major I	ngredients:
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[Generic Name]	[CAS No.]	[%]
Styrene acrylic resin	+++	80-90
Wax	+++	10-20
Organic pigment	147-14-8	1-10
Titanium compound	12060-59-2	1-10
Amorphous silica	7631-86-9	< 1

+++: Supplier's confidential information

Hazardous Ingredients: None present

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: Immediatelyflusheyeswithplentyofwaterfor15minutes. 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).



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	for waste disposal.Use vacuum e Air(HEPA) filter.Vacuum shou	sonal protective equipment eep material and place in a bag and hold quipped with High Efficiency Particulate ld be electrically bonded and grounded To avoid dust generation, do not sweep	
7.	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	or aloged Store in a goal and dryplage	
	Storage Conditions: Keep container closed. Store in a cool and dry place. Keep out of reach of children.		
	Incompatible Products: None		
	_	Cartridge designated by Konica Minolta.	
<u></u>	EXPOSURE CONTROLS/PERSONAL PRO		
	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 afte	r handling.	
9.	PHYSICAL AND CHEMICAL PROPERTIN	ES	
	Appearance		
	Physical State: Solid	Color: Cyan	
	Form: Powder (mean dia. is 5-1	_	
	Odor:	Almost odorless	
	PH	Not applicable	
	Boiling Point(°C):	Not applicable	
	Melting Point(°C): Flash Point(°C):	Around 125C(275F) (Softening Point) Not applicable	
	Ignition Temperature(°C):	No data available	
	Explosion Properties:	No data available	
	Vapor Pressure:	Not applicable	
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Product Name: TONER TN312C Prepared date:10-Jul-2006 Revised Date: 21-Jul-2006 1.2 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, 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): >5.17 (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 NTP(USA): Not listed 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

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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