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MSDS No.: MFP-2444

Product Name: TONER TN612C

Prepared date:16-Apr-2008 Revised Date: 28-Sep-2008

1. PRODUCT AND COMPANY IDENTIFICATION Product Name: TONER TN612C used for: bizhub PRO C6501/C6501P/C5501

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

Most Important Hazards and Effects of the Products Ingestion 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 INGREDIENTS				
	Substance [ ] Preparation [	XJ		
	Major Ingredients:			
	[Generic Name]	[CAS No.]	[%]	
	Styrene acrylic resin	+++	75-85	
	Wax	+++	10-20	
	Organic pigment	147-14-8	1-10	
	Wax-2	+++	1-10	
	Amorphous silica	7631-86-9	1-10	
	Titanium dioxide	13463-67-7	< 1	
+++: Supplier's confidential information				
Hazardous Ingredients:				
	None present			
4.	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			
ວ.	Suitable Extinguishing Media: CO2,	wator aprove foom	and dry abominal	
	Extinguishing Media to Avoid: Full		and dry chemical	
	Excitigation predia co Avoita. L'all	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 equ Air(HEPA) filter. Vacuum should to dispel static electricity. To dry.	nal protective equipment o material and place in a bag and hold ipped with High Efficiency Particulate be electrically bonded and grounded o avoid dust generation, do not sweep	
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): 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 t respirators may be required.	the event of large spill), goggles and	
	Hygiene Measures: Wash hands after	handling	
9.	PHYSICAL AND CHEMICAL PROPERTIES		
	Appearance Physical State: Solid C	olor: Cyan	
	Form: Powder (mean dia. is 5-10u	_	
		lmost odorless	
	PH N	ot applicable	
	_	ot applicable	
		round 125C(275F) (Softening Point)	
		ot applicable	
		o data available o data available	
	<b>– –</b>	ot applicable	
		or arranged	



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Product Name: TONER TN612C Prepared date:16-Apr-2008 Revised Date: 28-Sep-2008 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): >2500 (Rat) \* Dermal, LD50(mg/kg): No data available Inhalation, LC50(mg/l): >4.79 (Rat,4hour) \*(This was the highest attainable concentration.) Eye irritation: Non 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  $(16 \text{mg/m}^3)$  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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### 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.

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