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MSDS No.: MFP-2424

Product Name: TONER TN612Y

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

1. PRODUCT AND COMPANY IDENTIFICATION Product Name: TONER TN612Y 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: Yellow 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 [X]			
Majo	or Ingredients:			
	[Generic Name]	[CAS No.]	[%]	
	Styrene acrylic resin	+++	75-85	
	Wax	+++	10-20	
	Organic pigment	+++	1-10	
	Wax-2	+++	1-10	
	Amorphous silica	7631-86-9	1-10	
	Titanium dioxide	13463-67-7	< 1	
+++: Supplier's confidential information				
	ardous Ingredients: ne 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: Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention. Skin Contact: Wash with water and mild soap.				
Suit	FIGHTING MEASURES able Extinguishing Media: CO2, wate nguishing Media to Avoid: Full wate		and dry chemical	

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 equip Air(HEPA) filter. Vacuum should b to dispel static electricity. To a dry.	al protective equipment material and place in a bag and hold oped with High Efficiency Particulate be electrically bonded and grounded avoid dust generation, do not sweep		
7.	HANDLING AND STORAGE			
	Handling			
Technical Measures: None		Avoid contact with eves		
	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			
		e event of large spill), goggles and		
	respirators may be required.			
	Hygiene Measures: Wash hands after handling.			
9.		PHYSICAL AND CHEMICAL PROPERTIES		
	Appearance	or: Yellow		
	Physical State: Solid Col Form: Powder (mean dia. is 5-10um			
		ost odorless		
		applicable		
		applicable		
	Melting Point(°C): Arc	ound 125C(275F) (Softening Point)		
		applicable		
		data available		
	± ±	data available		
	Vapor Pressure: Not	applicable		



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Product Name: TONER TN612Y 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): >5.09 (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 (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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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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