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MSDS No.:MFP-2414

Product Name: TONER TN612K

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

1. PRODUCT AND COMPANY IDENTIFICATION Product Name: TONER TN612K 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 classified as dangerous. (1999/45/EC) Emergency Overview: Black powder (mean dia. is 5-10um by volume). Almost oderless. 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 INGREDIEN Substance [] Preparation [X]	rs	
Major Ingredients:		
[Generic Name]	[CAS No.]	[8]
Styrene acrylic resin	+++	75-85
Wax	+++	1-10
Carbon black	1333-86-4	1-10
Wax-2	+++	1-10
Amorphous silica	7631-86-9	1-10
Titanium dioxide	13463-67-7	< 1
+++: Supplier's confidential information	1	
Hazardous Ingredients:		
Chemical Name: Carbon black (1-10%)		
CAS No.: 1333-86-4	EEC-No.: 215-609-9	
OSHA Z-Tables(USA): 3.5mg/m3	ACGIH-TLV(USA): 3.5mg/m3	
NTP(USA): Not listed	IARC Monographs	s: Group 2B
California Proposition 65(USA): Li		
Symbol(EC): Not listed	R-Phrase(EC): Not listed	
DFG-MAK(GER): III 3B	Worksafe-TWA(Au	ustl): 3mg/m3
4. FIRST-AID MEASURES		
Ingestion: Wash out mouth with water. Dr	ink one or two g	glasses of water.
If symptoms occur, get medical atte	ention.	
Inhalation: Move victim to fresh air	immediately. If	symptoms occur,
get medical attention.		
Eve Contact: Immediately fluch every	vithplentvofwat	erfor15minutes

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 Hagarda: If dispersed in air like most finally

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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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				
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				
_	Cartridge designated by Konica Minolta.			
8. EXPOSURE CONTROLS/PERSONAL PR				
Engineering Measures				
Ventilation: None required with	th intended use.			
Control Parameters(As total dust)				
OSHA-PEL(USA): 15mg/m3 A	CGIH-TLV(USA): 10mg/m3			
_	orksafe-TWA(Austl.): 10mg/m3			
Personal Protective Equipment				
Not required under normal conditions. For use other than in normal				
	n the event of large spill), goggles and			
	respirators may be required. Hygiene Measures: Wash hands after handling.			
9. PHYSICAL AND CHEMICAL PROPERTI	ES			
Appearance	Color: Black			
Physical State: Solid Form: Powder (mean dia. is 5-1				
Odor:	Almost oderless			
PH	Not applicable			
Boiling Point(°C):	Not applicable			
Melting Point(°C)/[F]:	Around No data available /[] (Softening			
Point)	_			
Flash Point(°C):	Not applicable			
Ignition Temperature(°C):	No data available			
Explosion Properties:				



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Vapor Pressure:	Not applicable
Specific Gravity:	1.2
Solubility:	Insoluble in water.
Partition Coefficient, n-Octanol/	Water: Not applicable
10. STABILITY AND REACTIVITY	
Stability: Stable except above 20	OC(392F).
Hazardous Reactions: Dust explos:	ion, like most finely divided organic
powders.	
Conditions to avoid: Electric dis	charge, throwing into fire.
Materials to Avoid: Oxidizing ma	aterials.
Hazardous Decomposition Products:	CO, CO2, NOx and smoke.
Hazardous Polymerization: Will no	t occur.
11. TOXICOLOGICAL INFORMATION	
Acute Toxicity:	
Ingestion(oral), LD50(mg/kg):	$2500(P_{2}+) *$
Dermal, LD50(mg/kg): No data a	
Inhalation, LC50(mg/l): >5.2	
(This was the highest attain	
Eye irritation: Minimal irrita	
Skin irritation: Mild irritant	
Skin sensitizer: Non sensitizer (
Local Effects: see Chronic Toxici	
Chronic Toxicity or Long Term Tox	
	of chronic toxicity and carcinogenicity
	s, there were no lung changes at all in
	(m3), the most relevant level to potential
	to mild degree of fibrosis was noted in
	dle exposure level (4mg/m3), and a mild
	is was observed in 92% of the rats at
_	6mg/m3). The lung changes observed in
	are interpreted in terms of "lung
	eric responses to the presence of large
	soluble and relatively benign dusts
	riods in the lungs. Lung tumor frequency
	ed to toner at the three exposure levels,
and for air-only control rat	
Carcinogenicity	
	carbon black as a Group 2B carcinogen
	This evaluation is given to Carbon Black
	human evidence, but sufficient animal
_	upon the development of lung tumors in
	ition exposures to free carbon black at
levels that induce particle	_
	lels other than rats have not demonstrated



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anassociationbetweencarbonblack and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

Mutagenicity: Negative(AMES test)
(*= Based on data for other Konica Minolta Products with similar ingredients)

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:

Ingredient carbon black subject to California Proposition 65 is bound in polymer-matrices so that warnings are not required.

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 Explanation of term: IARC 2B means "possible human carcinogen". 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

IARC(1996): IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 65, Printing Process and Printing Inks, Carbon Black and Some Nitro Compounds, Lyon, pp.149-261

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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