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MSDS No.: PRT-2524

Product Name: TONER (Magenta)

Prepared date: 31-Oct-2007 Revised Date: 1-Nov-2008

PRODUCT AND COMPANY IDENTIFICATION
 Product Name: TONER (Magenta)
 used for: magicolor 1600W/1630N/1650EN/1680MF/1690MF

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: Red 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 INGRED	ENTS		
Substance [] Preparation [2	K]		
Major Ingredients:			
[Generic Name]	[CAS No.]		
Styrene acrylic resin	+++	70-80	
Wax	+++	10-20	
Organic pigment 1	+++	1-10	
Organic pigment 2	+++	1-10	
Amorphous silica	7631-86-9	1-10	
Titanium dioxide	13463-67-7	< 1	
+++: Supplier's confidential informat	zion		
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: Immediatelyflushey	eswithplenty of wat	erfor15minutes.	
If symptoms occur, get medical a	ttention.		
Skin Contact: Wash with water an	d mild soap.		
5. FIRE-FIGHTING MEASURES			
Suitable Extinguishing Media: CO2,	water aprav foom	and dry chemical	
Extinguishing Media to Avoid: Full		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 (Air(HEPA) filter.Vacuum show	rsonal protective equipment weep material and place in a bag and hold equipped with High Efficiency Particulate ald be electrically bonded and grounded To 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 PR	OTECTION		
Engineering Measures			
Ventilation: None required with intended use.			
Control Parameters (As total dust)			
_	CGIH-TLV(USA): 10mg/m3 orksafe-TWA(Austl.): 10mg/m3		
Personal Protective Equipment			
Not required under normal cor operating procedures (such as respirators may be required.	nditions. For use other than in normal in the event of large spill), goggles and er handling.		
Not required under normal cor operating procedures (such as respirators may be required. Hygiene Measures: Wash hands afte	in the event of large spill), goggles and er handling.		
Not required under normal cor operating procedures (such as respirators may be required. Hygiene Measures: Wash hands afte 9. PHYSICAL AND CHEMICAL PROPERT	in the event of large spill), goggles and er handling.		
Not required under normal cor operating procedures (such as respirators may be required. Hygiene Measures: Wash hands afte 9. PHYSICAL AND CHEMICAL PROPERT Appearance	in the event of large spill), goggles and er handling. HES		
Not required under normal cor operating procedures (such as respirators may be required. Hygiene Measures: Wash hands afte 9. PHYSICAL AND CHEMICAL PROPERT	in the event of large spill), goggles and er handling. HES Color: Red		
Not required under normal cor operating procedures (such as respirators may be required. Hygiene Measures: Wash hands afte 9. PHYSICAL AND CHEMICAL PROPERT Appearance Physical State: Solid	in the event of large spill), goggles and er handling. HES Color: Red		
Not required under normal cor operating procedures (such as a respirators may be required. Hygiene Measures: Wash hands afte 9. PHYSICAL AND CHEMICAL PROPERT Appearance Physical State: Solid Form: Powder (mean dia. is 5-	in the event of large spill), goggles and er handling. HES Color: Red 10um by volume)		
Not required under normal cor operating procedures (such as a respirators may be required. Hygiene Measures: Wash hands afte 9. PHYSICAL AND CHEMICAL PROPERT Appearance Physical State: Solid Form: Powder (mean dia. is 5- Odor: PH Boiling Point(°C):	in the event of large spill), goggles and er handling. HES Color: Red 10um by volume) Almost odorless Not applicable Not applicable		
Not required under normal cor operating procedures (such as a respirators may be required. Hygiene Measures: Wash hands afte 9. PHYSICAL AND CHEMICAL PROPERT Appearance Physical State: Solid Form: Powder (mean dia. is 5- Odor: PH Boiling Point(°C): Melting Point(°C):	in the event of large spill), goggles and er handling. HES Color: Red 10um by volume) Almost odorless Not applicable Not applicable Around 125C(275F) (Softening Point)		
<pre>Not required under normal cor operating procedures (such as i respirators may be required. Hygiene Measures: Wash hands afte 9. PHYSICAL AND CHEMICAL PROPERT Appearance Physical State: Solid Form: Powder (mean dia. is 5- Odor: PH Boiling Point(°C): Melting Point(°C): Flash Point(°C):</pre>	in the event of large spill), goggles and er handling. HES Color: Red 10um by volume) Almost odorless Not applicable Not applicable Around 125C(275F) (Softening Point) Not applicable		
<pre>Not required under normal cor operating procedures (such as i respirators may be required. Hygiene Measures: Wash hands afte 9. PHYSICAL AND CHEMICAL PROPERT Appearance Physical State: Solid Form: Powder (mean dia. is 5- Odor: PH Boiling Point(°C): Melting Point(°C): Flash Point(°C): Ignition Temperature(°C):</pre>	in the event of large spill), goggles and er handling. ES Color: Red 10um by volume) Almost odorless Not applicable Not applicable Around 125C(275F) (Softening Point) Not applicable Not applicable Not applicable		
<pre>Not required under normal cor operating procedures (such as i respirators may be required. Hygiene Measures: Wash hands afte 9. PHYSICAL AND CHEMICAL PROPERT Appearance Physical State: Solid Form: Powder (mean dia. is 5- Odor: PH Boiling Point(°C): Melting Point(°C): Flash Point(°C):</pre>	in the event of large spill), goggles and er handling. HES Color: Red 10um by volume) Almost odorless Not applicable Not applicable Around 125C(275F) (Softening Point) Not applicable		



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R	evised Date: 1-Nov-2008	
Specific Gravity: 1.2		
Solubility: Insoluble :	in water.	
Partition Coefficient, n-Octanol/Water: Not a	applicable	
10. STABILITY AND REACTIVITY		
Stability: Stable except above 200C(392F).		
Hazardous Reactions: Dust explosion, like mo	ost finely divided organic	
powders.		
Conditions to avoid: Electric discharge, three	owing into fire.	
Materials to Avoid: Oxidizing materials.		
Hazardous Decomposition Products: CO, CO2, N	Ox and smoke.	
Hazardous Polymerization: Will not occur.		
11. TOXICOLOGICAL INFORMATION		
Acute Toxicity:		
Ingestion(oral), LD50(mg/kg): >2500 (Ra	a+)	
Dermal, LD50(mg/kg): No data available		
Inhalation, LC50(mg/l): >4.77 (Rat,4ho	ur)(This was the highest	
attainable concentration.)	ar) (mib was the mighest	
Eye irritation: Minimal irritant (Rabbit)		
Skin irritation: Non irritant (Rabbit)		
Skin sensitizer: Non sensitizer (Gui	nea pig)	
(*= Based on data for other Konica Minolta Product		
Local Effects: see Chronic Toxicity or Long term Toxicity		
Chronic Toxicity or Long Term Toxicity:		
Prolonged inhalation of excessive dust m	nay cause lung damage. It is	
attributed to "lung overloading", a gen		
amounts of any dust retained in the lung		
Use of this product, as intended, does r		
excessive dust.		
In a study in rats by chronic inhalation ϵ	exposure to a typical toner,	
a mild to moderate degree of lung fibrosis		
in the high concentration(16mg/m ³) expos		
mild degree of fibrosis was noted in 22	2% of the animals in the	
$middle(4mg/m^3)$ exposure group. But no pu		
in the lowest $(1mg/m^3)$ exposure group, t	the most relevant level to	
potential human exposures.		
Carcinogenicity		
IARC Monographs: Not listed		
NTP(USA): Not listed		
OSHA Regulated(USA): Not listed		
Mutagenicity: Negative (A	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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