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MSDS No.: PPC-0493

0em 8936-202

Pr	oduct Name: MT TONER 204[]				
		Prepared D	ate:10-Jun-1998		
		Revised Da	te: 12-Sep-2002		
1.	PRODUCT AND COMPANY IDENTIFICATION Product Name: MT TONER 204[] used for: EP2030, EP3000	[],denoted wi	th an alphabet.		
	Supplier Identification: Minolta Corporation 101 Williams Drive, Ramsey, New Jersey 07446, U.S.A. Telephone: 201-825-4000				
	Emergency Telephone No. Contact your regional poison contr	ol center.			
2.	2. COMPOSITION / INFORMATION ON INGREDIENTS Substance [ ] Preparation [ X ]				
	Major Ingredients:				
	[Generic Name]	[CAS No.]	[%]		
	Styrene acrylate copolymer	+++	80-90		
	Carbon black	1333-86-4	5-10		
	Organic pigment	+++	1- 5		
	Polyolefin wax	+++	1- 5		
	Ferrite	+++	1- 5		
	+++: Supplier's confidential information				
	Hazardous Ingredients: Chemical Name: Carbon black (5-10%) CAS No.: 1333-86-4 OSHA Z-Tables(USA): 3.5mg/m3 NTP(USA): Not listed Symbol(EC): Not listed DFG-MAK(GER): III 3B	EEC-No.: 215-6 ACGIH-TLV(USA) IARC Monograph R-Phrase(EC): Worksafe-TWA(A	09-9 : 3.5mg/m3 ns: Group 2B Not listed nustl): 3mg/m3		



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### 3. HAZARDS IDENTIFICATION

Classification : Not classified as dangerous. (1999/45/EC)

Most Important Hazards and Effects of the Products

For Human Health: This toner is not classified as a human carcinogen. No symptoms expected with intended use.

For the Environment: No data are available on the adverse effects of this product on the environment.

For Others: None

Specific Hazards: Dust explosion (like most finely divided organic powders)

#### 4. FIRST-AID MEASURES

Symptoms of Overexposure: No symptoms expected with intended use. Routes of Entry: Eye contact, inhalation, ingestion Information

Inhalation: If symptoms are experienced, remove source of contamination or move victim to fresh air and obtain medical advice.

- Skin Contact: Flush with gently flowing water (preferably lukewarm) and soap for 15 minutes or until particle is removed. If irritation does occur, obtain medical advice.
- Eye Contact: Do not allow victim to rub eye(s). Flush with gently flowing water (preferably lukewarm) for 15 minutes or until particle is removed. Have victim look right and left, and, then up and down. If irritation does occur, obtain medical attention. DO NOT attempt to manually remove anything stuck to the eye(s).

Ingestion: If irritation or discomfort occurs, obtain medical attention
immediately.

Note to Physician: None

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO2, water spray, foam and dry chemical Extinguishing Media to Avoid: Full water jet

Special Firefighting Procedures: None

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).

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wipe off with paper or cloth.

DO NOT use vacuum cleaner when a large amount is released. It, like most finely divided organic powders, may create a dust explosion.



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7.	HANDLING AND STORAGE Handling			
	Technical Measures/Pre	ecautions: None		
	Sale Handling Advice:	Try not to disperse the particles.		
	Technical Measures.	Nono		
	Storage Conditions:	None Keep container glosed		
	storage conditions:	Keep container closed.		
		Store in a cool and dry place.		
	Incompatible Descharts	Reep out of reach of children.		
	Packing Materials: Pottles or Cartridge designated by Minelta			
	Packing Materials: Bottles of Cartriage designated by Minolta			
8.	8. EXPOSURE CONTROLS/PERSONAL PROTECTION Engineering Measures Ventilation: None required with intended use. Control Parameters (As total dust)			
	OSHA-PEL(USA): 15mg/m	3 ACGIH-TLV(USA): 10mg/m3		
	DFG-MAK(GER): 4mg/m3 Worksafe-TWA(Austl.): 10mg/m3 Personal Protective Equipment None required when used as intended in Minolta equipment. For use other than normal customer-operating procedures (such as in but			
toner processing facilities), goggles and respirators may be rec Hygiene Measures: Wash hands after handling.		lities), goggles and respirators may be required.		
		ands after handling.		
9.	PHYSICAL AND CHEMICAL	PHYSICAL AND CHEMICAL PROPERTIES		
	Appearance			
	Physical State: Soli	d Form: Powder Color: Black		
Odor:		Faint odor		
	Particle Size(µm):	10 - 20		
	PH/Boiling Point(°C):	Not applicable		
	Melting Point(°C):	No data available		
	Softening Point(°C):	120 - 125 *		
	Flash Point(°C):	Not applicable		
	Ignition Temperature(°C)	: approx.450 *		
	Explosion Properties:	No data available		
	Vapor Pressure:	Not applicable		
	Density(g/cm <sup>3</sup> ):	1.15 * (bulk density: 0.42 *)		
	Solubility in water:	Negligible		
	Oxidizing Properties:	No data available		
	Partition Coefficient, n-Octanol/Water: Not applicable			
	(*= Based on data for other Minolta Products with similar ingredient			



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10. STABILITY AND REACTIVITY	
Stability: Stable [ X ] Unstable [ ]	
Hazardous Reactions: Dust explosion, like	most finely divided organic
powders.	-
Conditions to avoid: Electric discharge, t	hrowing into fire.
Materials to Avoid: Oxidizing materials.	
Hazardous Decomposition Products: CO, CO2	
11. TOXICOLOGICAL INFORMATION	
Health Effects from Exposure: No symptoms	expected with intended use.
Toxicological Data	
Acute Toxicity:	
Inhalation, LC50(mg/l): $>1.79$ (	Rat,4hour) *
(This was the highest	t attainable concentration.)
<pre>Ingestion(oral), LD50(mg/kg): &gt;5000 (</pre>	Rat) *
Dermal, LD50(mg/kg): No data	available
Eye irritation: Mild conjunct.	ival irritation (Rabbit) *
Skin irritation: Non irritant	(Rabbit) *
Skin sensitizer: Non sensitize.	r (Guinea pig) *
Mutagenicity: Negative (AME)	S test)
(*= Based on data for other Minolta Product	s with similar ingredients)
Local Effects: see Chronic Toxicity or Long	term Toxicity
Chronic Toxicity or Long Term Toxicity:	-
Prolonged inhalation of excessive dus	t may cause lung damage. It is
attributed to "lung overloading", a gene	ric 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 rate by chronic inhalati	on exposure to a typical toner
a mild to moderate degree of lung fibr	on exposure to a typical toner,
in the high concentration $(16 \text{mg/m}^3)$ ever	osure group, and a minimal to mild
degree of fibracie use noted in 22% of t	the enimals in the middle (4mg/m <sup>3</sup> )
degree of fibrosis was noted in 22% of t	The animals in the middle $(4mg/m^2)$
exposure group. But no pulmonary change w	as reported in the lowest (img/m <sup>2</sup> )
exposure group, the most relevant leve	I to potential human exposures.
Carcinogenicity	
IARC Monographs/NTP(USA)/OSHA Regulated	(USA): Not listed
In 1996 the IARC reevaluated carbon black	as a Group 2B carcinogen (possible
human carcinogen). This evaluation is	given to Carbon Black for which
there is inadequate human evidence, but	sufficient animal evidence. The
latter is based upon the development o	of lung tumors in rats receiving
chronic inhalation exposures to free ca	arbon black at levels that induce
particle overload of the lung.	



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Studies performed in animal models other than rats have not demonstrated an association between carbon black 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.

### 12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

### 13. DISPOSAL CONSIDERATION

Appropriate Methods of Disposal

Preparation (community provisions):

Waste may be disposed or incinerated under conditions which meet all federal, state and local environmental regulations.

Contaminated Packaging:

Waste may be disposed or incinerated under conditions which meet all federal, state and local environmental regulations.

#### Precautions:

Do not throw the toner cartridge or toner into an open flame. The hot toner may scatter and cause burns or other damage.

### 14. TRANSPORT INFORMATION

Special Precautions: None 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.

SARA (Superfund Amendments and Reauthorization Act) Title III

302 Extreme Hazardous Substance: None

311/312 Hazard Categories/313 Reportable Ingredients: None California Proposition 65:

This product contains no chemical substances subject to California Proposition 65.



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EU Information	
Information on the label (1999/45/EC	and 67/548/EEC):
Symbol & Indication: Not required	
R-Phrase: Not required	
S-Phrase: Not required	
76/769/EEC:	
All chemical substances in this produ	uct comply with all applicable rules
or order under 76/769/EEC.	
Article14 (2.1) of Directive 1999/45/EC	C is not applicable to this product.
16. OTHER INFORMATION	
NFPA Hazard Rating: The National Fire P	rotection Agency(USA):
Health: 1 Flammability	: 1 Reactivity: 0
HMIS Rating: The National Paint and Coa	ting Association (USA):
Health: 1 Flammability	: 1 Reactivity: 0
Recommended Uses:	
Toner for Electrophotographic Equipme	ent
Restrictions:	
Information on this data sheet repress opinion as to the proper use in hand conditions specified in our User's Manual nor any of its subsidiaries assumes any l or completeness of the information co- present unknown hazards and should be hazards are described herein, we do no hazards which exist.	sents our current data and the best ling of this product under normal al. However, neither Minolta Co., Ltd iability whatsoever for the accuracy ontained herein. All materials may used with caution. Although certain of guarantee that these are the only
Literature References:	
ANSI Z400.1-1993	
ISO 11014-1	
Commission Directive 91/155/EEC	
IARC(1996): IARC monographs on the Eva Chemicals to Humans, Vol. Inks, Carbon Black and Some	luation of the Carcinogenic Risk of 65, Printing Process and Printing Nitro Compounds, Lyon, pp.149-261
H.Muhle, B.Bellmann, O.Creutzenberg,	C.Dasenbrock, H.Ernst, R.Kilpper,

Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.