Ct Name: MT TONER 601[] DDUCT AND COMPANY IDENTIFICATION duct Name: MT TONER 601[] ed for: EP5050, EP6000 plier Identification: Minolta Corporation 101 Williams Drive, Ramsey, New Jac Telephone: 201-825-4000 rgency Telephone No. Contact your regional poison cont MPOSITION / INFORMATION ON INGREDIEN stance [] Preparation [X] or Ingredients: [Generic Name] Styrene acrylate copolymer Carbon black Organic pigment Polyolefin wax	Prepared E Revised Da [],denoted wi ersey 07446, U.S rol center. VTS] [CAS No.] +++ 1333-86-4	[%] 80-90
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[Generic Name] Styrene acrylate copolymer Carbon black Organic pigment	+++ 1333-86-4	80-90
Styrene acrylate copolymer Carbon black Organic pigment	+++ 1333-86-4	80-90
Carbon black Organic pigment	1333-86-4	
Organic pigment		
	1.1.1	
Polyolefin way	+++	1- 5
-	+++	1- 5
Ferrite	+++	1- 5
+++: Supplier's confidential info	rmation	
ardous Ingredients: nemical Name: Carbon black (5-10%)		
CAS No.: 1333-86-4	EEC-No.: 215-6	509-9
OSHA Z-Tables(USA): 3.5mg/m3	ACGIH-TLV (USA)): 3.5mg/m3
NTP(USA): Not listed	IARC Monograph	-
Symbol(EC): Not listed	R-Phrase(EC):	
DFG-MAK(GER): III 3B	Worksafe-TWA(A	Austl): 3mg/m3
	ardous Ingredients: nemical 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	nemical Name: Carbon black (5-10%)CAS No.: 1333-86-4EEC-No.: 215-6OSHA Z-Tables (USA): 3.5mg/m3ACGIH-TLV (USA)NTP (USA): Not listedIARC MonographSymbol (EC): Not listedR-Phrase (EC):

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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/Pred	cautions: None
	Safe Handling Advice: 7	Try not to disperse the particles.
	Storage	
	Technical Measures: N	Jone
	Storage Conditions: H	Keep container closed.
		Store in a cool and dry place.
		Keep out of reach of children.
	Incompatible Products: N	
	Packing Materials: I	Bottles or Cartridge designated by Minolta.
8.	EXPOSURE CONTROLS/PERSO	NAL PROTECTION
	Engineering Measures	
	Ventilation: None requi	
	Control Parameters (As tota	
	-	ACGIH-TLV(USA): 10mg/m3
		Worksafe-TWA(Austl.): 10mg/m3
	Personal Protective Equip	
	None required when used	d as intended in Minolta equipment.
		al customer-operating procedures (such as in bulk
	toner processing facili	ities), goggles and respirators may be required.
	toner processing facil: Hygiene Measures: Wash ha	ities), goggles and respirators may be required. Inds after handling.
9.	toner processing facil: Hygiene Measures: Wash ha PHYSICAL AND CHEMICAL P	ities), goggles and respirators may be required. Inds after handling.
9.	toner processing facil: Hygiene Measures: Wash ha PHYSICAL AND CHEMICAL P Appearance	ities), goggles and respirators may be required. Inds after handling. ROPERTIES
9.	toner processing facil: Hygiene Measures: Wash ha PHYSICAL AND CHEMICAL P Appearance Physical State: Solid	ities), goggles and respirators may be required. ands after handling. ROPERTIES Form: Powder Color: Black
9.	toner processing facil: Hygiene Measures: Wash ha PHYSICAL AND CHEMICAL P Appearance Physical State: Solid Odor:	ities), goggles and respirators may be required. ands after handling. ROPERTIES Form: Powder Color: Black Faint odor
9.	toner processing facil: Hygiene Measures: Wash ha PHYSICAL AND CHEMICAL P Appearance Physical State: Solid Odor: Particle Size(µm):	<pre>ities), goggles and respirators may be required. inds after handling. ROPERTIES Form: Powder Color: Black Faint odor 10 - 20</pre>
9.	toner processing facil: Hygiene Measures: Wash ha PHYSICAL AND CHEMICAL P Appearance Physical State: Solid Odor: Particle Size(µm): PH/Boiling Point(°C):	<pre>ities), goggles and respirators may be required. ands after handling. ROPERTIES Form: Powder Color: Black Faint odor 10 - 20 Not applicable</pre>
9.	toner processing facil: Hygiene Measures: Wash ha PHYSICAL AND CHEMICAL P Appearance Physical State: Solid Odor: Particle Size(µm): PH/Boiling Point(°C): Melting Point(°C):	<pre>ities), goggles and respirators may be required. ands after handling. ROPERTIES Form: Powder Color: Black Faint odor 10 - 20 Not applicable No data available</pre>
9.	<pre>toner processing facil: Hygiene Measures: Wash ha PHYSICAL AND CHEMICAL P Appearance Physical State: Solid Odor: Particle Size(µm): PH/Boiling Point(°C): Melting Point(°C): Softening Point(°C):</pre>	<pre>ities), goggles and respirators may be required. inds after handling. ROPERTIES Form: Powder Color: Black Faint odor 10 - 20 Not applicable No data available 120 - 125 *</pre>
9.	<pre>toner processing facil: Hygiene Measures: Wash ha PHYSICAL AND CHEMICAL P Appearance Physical State: Solid Odor: Particle Size(µm): PH/Boiling Point(°C): Melting Point(°C): Softening Point(°C): Flash Point(°C):</pre>	<pre>ities), goggles and respirators may be required. ands after handling. ROPERTIES Form: Powder Color: Black Faint odor 10 - 20 Not applicable No data available 120 - 125 * Not applicable</pre>
9.	<pre>toner processing facil: Hygiene Measures: Wash ha PHYSICAL AND CHEMICAL P Appearance Physical State: Solid Odor: Particle Size(µm): PH/Boiling Point(°C): Melting Point(°C): Softening Point(°C): Flash Point(°C): Ignition Temperature(°C):</pre>	<pre>ities), goggles and respirators may be required. ands after handling. ROPERTIES Form: Powder Color: Black Faint odor 10 - 20 Not applicable No data available 120 - 125 * Not applicable approx.450 *</pre>
9.	<pre>toner processing facil: Hygiene Measures: Wash ha PHYSICAL AND CHEMICAL P Appearance Physical State: Solid Odor: Particle Size(µm): PH/Boiling Point(°C): Melting Point(°C): Softening Point(°C): Flash Point(°C): Ignition Temperature(°C): Explosion Properties:</pre>	<pre>ities), goggles and respirators may be required. inds after handling. ROPERTIES Form: Powder Color: Black Faint odor 10 - 20 Not applicable No data available 120 - 125 * Not applicable approx.450 * No data available</pre>
9.	toner processing facil: Hygiene Measures: Wash ha PHYSICAL AND CHEMICAL P Appearance Physical State: Solid Odor: Particle Size(µm): PH/Boiling Point(°C): Melting Point(°C): Softening Point(°C): Flash Point(°C): Ignition Temperature(°C): Explosion Properties: Vapor Pressure:	<pre>ities), goggles and respirators may be required. inds after handling. ROPERTIES Form: Powder Color: Black Faint odor 10 - 20 Not applicable No data available 120 - 125 * Not applicable approx.450 * No data available Not applicable Not applicable</pre>
9.	<pre>toner processing facil: Hygiene Measures: Wash ha PHYSICAL AND CHEMICAL P Appearance Physical State: Solid Odor: Particle Size(µm): PH/Boiling Point(°C): Melting Point(°C): Softening Point(°C): Flash Point(°C): Ignition Temperature(°C): Explosion Properties: Vapor Pressure: Density(g/cm³):</pre>	<pre>ities), goggles and respirators may be required. inds after handling. ROPERTIES Form: Powder Color: Black Faint odor 10 - 20 Not applicable No data available 120 - 125 * Not applicable approx.450 * No data available Not applicable 1.15 * (bulk density: 0.42 *)</pre>
9.	toner processing facil: Hygiene Measures: Wash ha PHYSICAL AND CHEMICAL P Appearance Physical State: Solid Odor: Particle Size(µm): PH/Boiling Point(°C): Melting Point(°C): Softening Point(°C): Flash Point(°C): Ignition Temperature(°C): Explosion Properties: Vapor Pressure:	<pre>ities), goggles and respirators may be required. inds after handling. ROPERTIES Form: Powder Color: Black Faint odor 10 - 20 Not applicable No data available 120 - 125 * Not applicable approx.450 * No data available Not applicable Not applicable</pre>
9.	<pre>toner processing facil: Hygiene Measures: Wash ha PHYSICAL AND CHEMICAL P Appearance Physical State: Solid Odor: Particle Size(µm): PH/Boiling Point(°C): Melting Point(°C): Softening Point(°C): Flash Point(°C): Ignition Temperature(°C): Explosion Properties: Vapor Pressure: Density(g/cm³): Solubility in water: Oxidizing Properties:</pre>	<pre>ities), goggles and respirators may be required. inds after handling. ROPERTIES Form: Powder Color: Black Faint odor 10 - 20 Not applicable No data available 120 - 125 * Not applicable approx.450 * No data available Not applicable 1.15 * (bulk density: 0.42 *) Negligible</pre>



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10. STABILITY AND REACTIVITY

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 attainable concentration.) Ingestion(oral), LD50(mg/kg): >5000 (Rat) * Dermal, LD50 (mg/kg): No data available Eye irritation: Mild conjunctival irritation (Rabbit) * Non irritant (Rabbit) * Skin irritation: Skin sensitizer: Non sensitizer (Guinea pig) * Negative (AMES test) Mutagenicity:

(*= Based on data for other 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/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m³) exposure group. But no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level 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 of lung tumors in rats receiving chronic inhalation exposures to free carbon 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 product comply with all applicable rules
 or order under 76/769/EEC.

Article14 (2.1) of Directive 1999/45/EC is not applicable to this product.

16. OTHER INFORMATION

NFPA Hazard Rating: The National Fire Protection Agency(USA): Health: 1 Flammability: 1 Reactivity: 0 HMIS Rating: The National Paint and Coating Association(USA): Health: 1 Flammability: 1 Reactivity: 0

Recommended Uses:

Toner for Electrophotographic Equipment

Restrictions:

Information on this data sheet represents our current data and the best opinion as to the proper use in handling of this product under normal conditions specified in our User's Manual. However, neither Minolta Co., Ltd. nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we do not guarantee that these are the only hazards which exist.

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

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