

Material Safety Data Sheet

MSDS No.: TN152G-02EY-E23

Issued date:2014/09/02

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Revision History:3

1. PRODUCT AND COMPANY IDENTIFICATION

Manufacturer : Fuji Xerox Co., Ltd
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Product Name: **DocuCentre S2520/S2320 Series Toner(Black)**

2. HAZARD IDENTIFICATION

GHS Classification : Not classified as hazardous mixture of GHS classification.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or mixture : mixture

Chemical Nature :

Chemical Name	Ingredients (% by wt.)	CAS Number
Styrene/acrylate polymer	80-90	-
Paraffin Wax	<10	8002-74-2
Carbon Black	<10	1333-86-4
Amorphous silica	<10	7631-86-9
Titanium dioxide	<10	13463-67-7

UN Hazard Class: None

UN Number :None

This product does not contain Lead , Mercury , Cadmium , Hexavalent Chromium ,

Polybrominated Biphenyls (PBBs) or Polybrominated Diphenyl Ethers (PBDEs) intentionally.

4. FIRST-AID MEASURES

Eye contact : Flush with a large amount of water for at least 15 minutes. Seek medical advice.
 Skin contact : Wash with soap and water.
 Inhalation : Remove from exposure and provide fresh air. Rinse mouth with water.
 Ingestion : Rinse mouth with water. Give several glasses of water to drink and seek medical advice.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media : Water spray, Foam, Dry chemicals. When in a machine, treat as an electrical fire.
 Unsuitable Extinguishing Media : No Information.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Avoid inhalation. If you spill a large volume of toner, contact your local Fuji Xerox representative for special handling.
 Environmental precautions : Prevent from entering into soil, waterways and ground water.
 Methods and materials for containment and cleaning up : Get rid of fire sources. Use a broom or a wet cloth to wipe off spilled toner. (It may catch fire by electric sparks inside the vacuum cleaner and cause explosion.)

7. HANDLING AND STORAGE

Handling	
Technical measures	: None required when used as intended in Fuji Xerox equipment.
Local and total ventilation	: None required when used as intended in Fuji Xerox equipment.
Notice	: Do not incinerate toner or a toner cartridge. Do not disassemble a cartridge.
Safe handling advice	: Do not incinerate toner or a toner cartridge. Do not disassemble a cartridge.
Storage	
Technical measures	: None
Conditions for safe storage	: Keep in cool, dry and well-ventilated area. Keep out of reach of children.
Packaging compatibilities	: Keep in Fuji Xerox's designated packaging materials.

8.EXPOSURE CONTROLS /PERSONAL PROTECTION

Control Parameters	
ACGIH TLV (2014)	: 10 mg/m ³ (Total) 3 mg/m ³ (Respirable)
Precautionary Measured	: None required when used as intended in Fuji Xerox equipment. For use other than normal customer operating procedures(such as in bulk toner processing facilities), local exhaust ventilation may be required.
Personal Protective Equipment	: None required when used as intended in Fuji Xerox equipment. For use other than normal customer operating procedures(such as in bulk toner processing facilities), protective glove, goggles and respirators may be required.

9.PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Black Powder
Odor	: Faint Odor
pH	: Not available
Melting Point/freezing point	: Not available
Boiling Point/Initial boiling point and boiling range	: Not available
Flash point	: None
Auto-ignition temperature	: None
Upper/lower flammability or explosive limits	: Not available
Vapour Pressure	: Not available
Vapour density	: Not available
Relative density	: Not available
Solubility	: Insoluble
Partition coefficient:n-octanol/water	: Not applicable
Decomposition temperature	: Not available

10.STABILITY AND REACTIVITY

Stability and Reactivity	: Stable
Possibility of hazardous reactions	: None
Conditions to avoid	: None
Incompatible materials	: None
Hazardous decomposition products	: No Information

11.TOXICOLOGICAL INFORMATION

Acute Toxicity	Swallowed→LD50(rat)	: >5000 mg/kg *1	(practically non-toxic)
	Skin→LD50(rabbit)	: >5000 mg/kg *1	(practically non-toxic)
	Inhaled→LC50(rat)	: >2.00mg/L/4hr	(practically non-toxic)(These results were obtained under the technically-feasible maximum dust concentration.)
Skin Irritant (rabbit)		: Not an irritant *1	
Skin Corrosive		: Not a corrosive	
Eye Irritant (rabbit)		: Not an irritant *1	

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Skin Sensitization (guinea-pig)	: Not a skin sensitizer *1
Mutagenicity	: Ames Assay: <u>Negative</u>
Carcinogenicity	: Carbon Black is classified as "Group 2B(possibly carcinogenic to humans) " by The International Agency for Research on Cancer (IARC). But we obtained the results from a Chronic Toner Inhalation Study, that commercially available Xerox toner has no evidence of human carcinogens. Titanium dioxide is classified as Group 2B by IARC.In animal chronic inhalation study, rats only showed the incidence of lung tumors which is attributed to excessive burden on rat lung clearance mechanism (overloading).It is assumed that a designated use of this product should not cause such excessive burden on lung clearance mechanism.Epidemiological studies provide no clear evidence of elevated risks of lung tumors mortality or morbidity among the workers exposed to TiO2 dust. All other ingredients are not classified as "Carcinogens ref.1".
Reproduction and Development	: Not classified as " Reproductive and Development chemicals ref.2"
Specific Target Organ Toxicity Single Exposure	: Not available
Specific Target Organ Toxicity Repeated	: The results obtained from a Xerox sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1mg/m3) exposure level (i.e. the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25% of the animals at the middle (4mg/m3) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m3) exposure level. These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged period. This study was conducted using a special test toner to comply with EPA testing protocol. The test toner was ten times more respirable than commercially available Xerox toner, and would not be functionally suitable for Xerox equipment.*1
Aspiration Hazard	: Not applicable
Other Information	: None

*1 This information is based on toxicity data for similar materials and ingredients.

12.ECOLOGICAL INFORMATION

Acute Toxicity	Fish 96hr LC50 (Oryzias latipes)	: >500 mg/L *1	(practically non-toxic)
	Daphnia 48hr EC50 (Daphnia magna)	: >100 mg/L *1	(practically non-toxic)
	Algae 72hr EC50 (Selenastrum capricornutum)	: >100 mg/L *1	(practically non-toxic)
Persistence and degradability		: Not available	
Bioaccumulative potential		: Not available	
Mobility in soil		: Not available	
Other adverse effects		: Not available	

*1 This information is based on toxicity data for similar materials and ingredients.

13.DISPOSAL CONSIDERATIONS

Dispose off in accordance with national and local regulations.

14.TRANSPORT INFORMATION

Transport in accordance with national, and local regulations.

UN Hazard Class	: None
UN Number	: None
Air Transport	
ICAO-TI/IATA-DGR	: None

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Sea Transport
IMDG Code

: None

15.REGULATORY INFORMATION

Ensure this product in compliance with national requirements and ensure conformity to local regulations.

16.OTHER INFORMATION

The above mentioned data correspond to our present state of knowledge and experience, but no warranty is made. Users should consider these data only as a supplement to other information and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of the materials and safety and health of employees and customers.

CAS Registry Number(R) is a Registered Trademark of the American Chemical Society.

References

- 1 : ◆ IARC Monographs on the Evaluation Carcinogenic Risks to Humans (WHO.International Agency for Research on Cancer)
 - ◆ National Toxicology Program(NTP) Report on Carcinogens (NTP)
 - ◆ TLVs and BEIs (American Conference of Governmental Industrial Hygienists)
 - ◆ Council Directive 67/548/EEC on the approximation of the laws, regulations, and administratives provisions relating to the classification, packing and labelling of dangerous substances; Annex 1 (EU)
 - ◆ Journal of Occupational Health(Japan Society for Occupational Health)
- 2 : ◆ Council Directive 67/548/EEC on the approximation of the laws, regulations, and administratives provisions relating to the classification, packing and labelling of dangerous substances; Annex 1 (EU)