

Material Safety Data Sheet

MSDS No.: TN152G-00EY

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1. PRODUCT AND COMPANY IDENTIFICATION

Manufacturer : Oki Data Corporation
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Product Name:

B930 Toner(Black)

2. HAZARD IDENTIFICATION

GHS Classification

Physical Hazards	Explosives	Not classified
	Flammable Gases	Not applicable
	Flammable Aerosols	Not applicable
	Oxidizing Gases	Not applicable
	Gases Under Pressure	Not applicable
	Flammable Liquids	Not applicable
	Flammable Solids	Not classified
	Self-Reactive Substances and Mixtures	Not classified
	Pyrophoric Liquids	Not applicable
	Pyrophoric Solids	Not classified
	Self-Heating Substances and Mixtures	Not classified
	Substances and Mixtures which, in Contact with Water, Emit Flammable Gases	Not classified
	Oxidizing liquids	Not applicable
	Oxidizing Solids	Not classified
	Organic Peroxides	Not classified
Corrosive to Metals	Not classified	
Health Hazards	Acute Toxicity (Oral)	Not classified
	Acute Toxicity (Skin)	Classification not possible
	Acute Toxicity (Inhalation)	Classification not possible
	Skin Corrosion/Irritation	Not classified
	Serious Eye Damage/Eye Irritation	Not classified
	Respiratory Sensitization	Classification not possible
	Skin Sensitization	Not classified
	Germcell Mutagenicity	Classification not possible
	Carcinogenicity	Classification not possible
	Reproductive Toxicity	Classification not possible
Specific Target Organ Toxicity Single Exposure	Classification not possible	
Specific Target Organ Toxicity Repeated	Classification not possible	
Aspiration Hazard	Not applicable	
Environmental Hazards	Hazardous to the Aquatic Environment (Acute toxicity)	Not classified
	Hazardous to the Aquatic Environment (Chronic toxicity)	Classification not possible

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or mixture : mixture
Chemical Nature :

Chemical Name	Ingredients (% by wt.)	CAS Number
Styrene/acrylate polymer	80-90	-
Polyolefin wax	<10	-
Carbon Black	<10	1333-86-4
Amorphous silica	<10	7631-86-9

UN Hazard Class: None

UN Number :None

This product does not contain Lead , Mercury , Cadmium , Hexavalent Chromium , Polybrominated Biphenyls (PBBs) and 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 (2008) : 10 mg/m³ (Total)
3 mg/m³ (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

Odour	: slightly sour smell
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)	: > 2000 mg/kg*1	(practically non-toxic)
	Skin→LD50 (rabbit)	: Not available	
	Inhaled→LC50 (rat)	: Not available	
Skin Irritant (rabbit)		: Not an irritant*1	
Skin Corrosive		: Not a corrosive	
Eye Irritant (rabbit)		: Not an irritant*1	
Skin Sensitization (guinea-pig)		: Not a sensitizer*1	
Mutagenicity: Ames Assay		: <u>Negative</u>	
Carcinogenicity		: Carbon Black is classified as "Group 2B(possibly carcinogenic to humans)" by IARC. But we obtained the results from a Chronic Toner Inhalation Study, that commercially available Xerox toner has no evidence of human carcinogens. 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)	: > 500mg/L*1	(practically non-toxic)
	Daphnia 48hr EC50 (Daphnia magna)	: > 100mg/L*1	(practically non-toxic)
	Algae 72hr EC50 (Selenastrum capricornutum)	: > 100mg/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.

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.

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 substaces; Annex 1 (EU)