

# Material Safety Data Sheet

T8024



# Material Safety Data Sheet

1/3

MSDS No.: DV090-00MO

Date

Revision : 2003.09.23

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer** :Fuji Xerox Co., Ltd  
**Address** :Akasaka Twin Tower East,  
 17-22, Akasaka-2-choume,  
 Minato-ku,Tokyo,Japan 107-0052

**Contact Point**

**JAPAN:**

**Yukio Adachi, Fuji Xerox Co., Ltd**  
 Address: 1600,Takematsu, Minamiashigara-shi  
 Kanagawa-ken, Japan 250-0111  
 Telephone Number: +81-465-70-1721/FAX Number: +81-465-70-1792  
 E-mail: msds-admin@fujixerox.co.jp

**ASIA PACIFIC REGION:**

**Kazuhiko Ando, Fuji Xerox Asia Pacific Pte Ltd**  
 Address: 77 Robinson Road # 26-00  
 SIA Building Singapore 068896  
 Telephone Number: 65 6239 2833/FAX Number:65 6239 2714  
 E-mail: Kazuhiko Ando@fxap.sgp.xerox.com

Product Name:

Color Laser Printer T8024 Developer(Magenta)

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Nature:

Chemical Name	Ingredients (% by wt.)	CAS Registry Number
Mn-Mg-Sr ferrite powder	90-95	—
Polyester	5-10	—
Acrylic resin	< 5	—
Red pigment	< 1	—
Formaldehyde/ meramine copolymer	< 1	—
Carbon black	< 1	1333-86-4

UN Hazard Class : None

UN Number : None

## 3.HAZARDOUS IDENTIFICATION

Physical and Chemical Hazard: None  
 Adverse Human Health Effects: None  
 Environmental Effects: None

## 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

Specific method : In case of fire use extinguishing media.  
When in a machine, treat as an electrical fire.

Extinguishing media : Water spray, Foam, Dry chemicals

## 6. ACCIDENTAL RELEASE MEASURES

Shut off ignition sources. For small spills, sweep up or soak up with damp cloth.  
For large spills, wear proper protective equipment and place waste material in closed container.  
Dispose of in accordance with national and local regulations.

## 7. HANDLING AND STORAGE

Handling : Do not incinerate toner or a toner cartridge. Do not disassemble a cartridge.

Storage : Keep in cool, dry and well-ventilated area. Keep out of reach of children.

## 8. EXPOSURE CONTROL /PERSONAL PROTECTION

Control Parameter

ACGIH TLV (2003) : 10 mg/m<sup>3</sup> (Total)  
3 mg/m<sup>3</sup> (Respirable)

Precautionary Measures : 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/Odor:	Red Powder / Faint Odor	Vapour Pressure:	Not applicable
Boiling Point(OC):	Not applicable	Softening Point:	Not available
Volatile (%):	Not applicable	Initial Boiling Point:	Not applicable
Specific Gravity(H <sub>2</sub> O=1):	Not available	Other Data:	None
Solubility in water:	Negligible		

## 10. STABILITY AND REACTIVITY

Flash Point(OC)	:Not applicable	Auto-Ignition Temperature:	Not applicable
Explosion Limit	:Not applicable		
Flammability	:Not flammable under conditions of use		
Spontaneous Combustibility / Reactivity with water	:None		
Self-reactivity / Explosive	:None		
Dust Explosive	: Like most organic materials in powder form, it can form explosive mixtures when dispersed in air.		
Stability and Reactivity	:Stable		
Other Data	:None		

## 11. TOXICOLOGICAL INFORMATION

Skin Corrosive	: None		
Skin Irritant (rabbit)	: Not an irritant <sup>1)</sup>	Eye Irritant (rabbit):	Not an irritant <sup>1)</sup>
Human Patch	: No evidence of skin irritation or sensitization. <sup>1)</sup>		
Sensitization	: Skin (guinea-pig)	: Not a sensitizer <sup>1)</sup>	
Acute Toxicity	Swallowed→LD50 (rat)	: > 5000 mg/kg <sup>1)</sup>	(practically non-toxic)
	Skin→LD50 (rabbit)	: > 5000mg/kg <sup>1)</sup>	(practically non-toxic)
	Inhaled→LC50 (rat)	: > 5mg/L/4hr <sup>1)</sup>	(practically non-toxic)

Chronic Toxicity : The results obtained from a Xerox sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1mg/m<sup>3</sup>) 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/m<sup>3</sup>) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m<sup>3</sup>) 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.<sup>1)</sup>

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<sup>ref.1)</sup>".

Mutagenicity: Ames Assay: Negative<sup>1)</sup>

Reproduction and Development: Not classified as "Reproductive and Development chemicals<sup>ref.2)</sup>".

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

## 12. ECOLOGICAL INFORMATION

Biodegradability	: Not available.
Bioaccumulation	: Not available.
Acute Toxicity	: Not available.
Other Information	: None

## 13. DISPOSAL CONSIDERATION

Dispose of 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

- ◆ 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)
- ◆ Council Directive 67/548/EEC on the approximation of the laws, regulations, and administratives provision s relating to the classification, packing and labelling of dangerous substaces; Annex 1 (EU)

※XEROX, The Document Company, and the digital X are trademarks of XEROX CORPORATION.



# Material Safety Data Sheet

MSDS No.: DV091-00MO

Date

Revision : 2003.09.23

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer** :Fuji Xerox Co., Ltd  
**Address** :Akasaka Twin Tower East,  
 17-22, Akasaka-2-choume,  
 Minato-ku,Tokyo,Japan 107-0052

**Contact Point**  
JAPAN:  
Yukio Adachi, Fuji Xerox Co., Ltd  
 Address: 1600,Takematsu, Minamiashigara-shi  
 Kanagawa-ken, Japan 250-0111  
 Telephone Number: +81-465-70-1721/FAX Number: +81-465-70-1792  
 E-mail: msds-admin@fuji-xerox.co.jp

ASIA PACIFIC REGION:  
Kazuhiko Ando, Fuji Xerox Asia Pacific Pte Ltd  
 Address: 77 Robinson Road # 26-00  
 SIA Building Singapore 068896  
 Telephone Number: 65 6239 2833/FAX Number:65 6239 2714  
 E-mail: Kazuhiko Ando@fxap.sgp.xerox.com

Product Name:

Color Laser Printer T8024 Developer(Cyan)

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Nature:

Chemical Name	Ingredients (% by wt.)	CAS Registry Number
Mn-Mg-Sr ferrite powder	90-95	—
Polyester	5-10	—
Acrylic resin	< 5	—
Blue pigment	< 1	—
Formaldehyde/ meramine copolymer	< 1	—
Carbon black	< 1	1333-86-4

UN Hazard Class : None

UN Number : None

## 3.HAZARDOUS IDENTIFICATION

Physical and Chemical Hazard: None  
 Adverse Human Health Effects: None  
 Environmental Effects: None

## 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

- Specific method : In case of fire use extinguishing media.  
When in a machine, treat as an electrical fire.
- Extinguishing media : Water spray, Foam, Dry chemicals

## 6. ACCIDENTAL RELEASE MEASURES

Shut off ignition sources. For small spills, sweep up or soak up with damp cloth.  
For large spills, wear proper protective equipment and place waste material in closed container.  
Dispose of in accordance with national and local regulations.

## 7. HANDLING AND STORAGE

- Handling : Do not incinerate toner or a toner cartridge. Do not disassemble a cartridge.
- Storage : Keep in cool, dry and well-ventilated area. Keep out of reach of children.

## 8. EXPOSURE CONTROL /PERSONAL PROTECTION

- Control Parameter  
ACGIH TLV (2003) : 10 mg/m<sup>3</sup> (Total)  
3 mg/m<sup>3</sup> (Respirable)
- Precautionary Measures : 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/Odor:	Blue Powder / Faint Odor	Vapour Pressure:	Not applicable
Boiling Point(OC):	Not applicable	Softening Point:	Not available
Volatile (%):	Not applicable	Initial Boiling Point:	Not applicable
Specific Gravity(H <sub>2</sub> O=1):	Not available	Other Data:	None
Solubility in water:	Negligible		

## 10. STABILITY AND REACTIVITY

- Flash Point(OC) :Not applicable      Auto-Ignition Temperature:Not applicable
- Explosion Limit :Not applicable
- Flammability :Not flammable under conditions of use
- Spontaneous Combustibility / Reactivity with water :None
- Self-reactivity / Explosive :None
- Dust Explosive : Like most organic materials in powder form, it can form explosive mixtures when dispersed in air.
- Stability and Reactivity :Stable
- Other Data :None

## 11. TOXICOLOGICAL INFORMATION

Skin Corrosive	: None	
Skin Irritant (rabbit)	: Not an irritant <sup>1)</sup>	Eye Irritant (rabbit): Not an irritant <sup>1)</sup>
Human Patch	: No evidence of skin irritation or sensitization. <sup>1)</sup>	
Sensitization	: Skin (guinea-pig)	: Not a sensitizer <sup>1)</sup>
Acute Toxicity	Swallowed→LD50 (rat)	: > 5000 mg/kg <sup>1)</sup> (practically non-toxic)
	Skin→LD50 (rabbit)	: > 5000mg/ kg <sup>1)</sup> (practically non-toxic)
	Inhaled→LC50 (rat)	: > 5mg/L/4hr <sup>1)</sup> (practically non-toxic)

Chronic Toxicity : The results obtained from a Xerox sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1mg/m<sup>3</sup>) 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/m<sup>3</sup>) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m<sup>3</sup>) 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.<sup>1)</sup>

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"<sup>ref.1)</sup>.

Mutagenicity: Ames Assay: Negative<sup>1)</sup>

Reproduction and Development: Not classified as "Reproductive and Development chemicals"<sup>ref.2)</sup>.

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

## 12. ECOLOGICAL INFORMATION

Biodegradability	: Not available.
Bioaccumulation	: Not available.
Acute Toxicity	: Not available.
Other Information	: None

## 13. DISPOSAL CONSIDERATION

Dispose of 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

- ◆ 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)
- ◆ Council Directive 67/548/EEC on the approximation of the laws, regulations, and administratives provision s relating to the classification, packing and labelling of dangerous substaces; Annex 1 (EU)

※XEROX, The Document Company, and the digital X are trademarks of XEROX CORPORATION.



# Material Safety Data Sheet

1/3

MSDS No.: TN131-00MO

Date

Revision : 2003.09.23

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer** :Fuji Xerox Co., Ltd  
**Address** :Akasaka Twin Tower East,  
 17-22, Akasaka-2-choume,  
 Minato-ku,Tokyo,Japan 107-0052

**Contact Point**

**JAPAN:**

**Yukio Adachi, Fuji Xerox Co., Ltd**  
 Address: 1600,Takematsu, Minamiashigara-shi  
 Kanagawa-ken, Japan 250-0111  
 Telephone Number: +81-465-70-1721/FAX Number: +81-465-70-1792  
 E-mail: msds-admin@fujixerox.co.jp

**ASIA PACIFIC REGION:**

**Kazuhiko Ando, Fuji Xerox Asia Pacific Pte Ltd**  
 Address: 77 Robinson Road # 26-00  
 SIA Building Singapore 068896  
 Telephone Number: 65 6239 2833/FAX Number:65 6239 2714  
 E-mail: Kazuhiko Ando@fxap.sgp.xerox.com

Product Name:

Color Laser Printer T8024 Toner(Cyan)

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Nature:

Chemical Name	Ingredients (% by wt.)	CAS Registry Number
Polyester	80-90	—
Blue pigment	< 5	—
Paraffin waxes	< 5	—
Vegetable wax	< 5	—
Amorphous silica	< 5	—

UN Hazard Class : None

UN Number : None

## 3. HAZARDOUS IDENTIFICATION

Physical and Chemical Hazard: None  
 Adverse Human Health Effects: None  
 Environmental Effects: None

## 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

- Specificid method : In case of fire use extinguishing media.  
When in a machine, treat as an electrical fire.
- Extinguishing media : Water spray, Foam, Dry chemicals

## 6.ACCIDENTAL RELEASE MEASURES

Shut off ignition sources. For small spills, sweep up or soak up with damp cloth.  
For large spills, wear proper protective equipment and place waste material in closed container.  
Dispose of in accordance with national and local regulations.

## 7.HANDLING AND STORAGE

- Handling : Do not incinerate toner or a toner cartridge. Do not disassemble a cartridge.
- Storage : Keep in cool, dry and well-ventilated area. Keep out of reach of children.

## 8.EXPOSURE CONTROL /PERSONAL PROTECTION

- Control Parameter  
ACGIH TLV (2003) : 10 mg/m<sup>3</sup> (Total)  
3 mg/m<sup>3</sup> (Respirable)
- Precautionary Measures : 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/Odor:	Blue Powder / Faint Odor	Vapour Pressure:	Not applicable
Boiling Point(OC):	Not applicable	Softening Point:	Not available
Volatile (%):	Not applicable	Initial Boiling Point:	Not applicable
Specific Gravity(H <sub>2</sub> O=1):	Not available	Other Data:	None
Solubility in water:	Negligible		

## 10.STABILITY AND REACTIVITY

- Flash Point(OC) :Not applicable      Auto-Ignition Temperature:Not applicable
- Explosion Limit :Not applicable
- Flammability :Not flammable under conditions of use
- Spontaneous Combustibility / Reactivity with water :None
- Self-reactivity / Explosive :None
- Dust Explosive : Like most organic materials in powder form, it can form explosive mixtures when dispersed in air.
- Stability and Reactivity :Stable
- Other Data :None

## 11. TOXICOLOGICAL INFORMATION

Skin Corrosive	: None	
Skin Irritant (rabbit)	: Not an irritant	Eye Irritant (rabbit): Not an irritant
Human Patch	: Not available	
Sensitization	: Skin (guinea-pig)	: Not a sensitizer
Acute Toxicity	Swallowed→LD50 (rat)	: > 5000 mg/kg <sup>1)</sup> (practically non-toxic)
	Skin→LD50 (rabbit)	: > 5000 mg/kg <sup>1)</sup> (practically non-toxic)
	Inhaled→LC50 (rat)	: > 5 mg/L/4hr <sup>1)</sup> (practically non-toxic)

Chronic Toxicity : The results obtained from a Xerox sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1mg/m<sup>3</sup>) 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/m<sup>3</sup>) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m<sup>3</sup>) 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.<sup>1)</sup>

Carcinogenicity : Not classified as "Carcinogens"<sup>ref.1)</sup>.

Mutagenicity: Ames Assay: Negative

Reproduction and Development: Not classified as "Reproductive and Development chemicals"<sup>ref.2)</sup>.

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

## 12. ECOLOGICAL INFORMATION

Biodegradability	: Not available.
Bioaccumulation	: Not available.
Acute Toxicity	: Not available.
Other Information	: None

## 13. DISPOSAL CONSIDERATION

Dispose of 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

- ◆ 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)
- ◆ Council Directive 67/548/EEC on the approximation of the laws, regulations, and administratives provision s relating to the classification, packing and labelling of dangerous substaces; Annex 1 (EU)

※XEROX, The Document Company, and the digital X are trademarks of XEROX CORPORATION.



# Material Safety Data Sheet

MSDS No.: TN130-00MO

Date

Revision : 2003.09.23

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer** :Fuji Xerox Co., Ltd  
**Address** :Akasaka Twin Tower East,  
 17-22, Akasaka-2-choume,  
 Minato-ku,Tokyo,Japan 107-0052

**Contact Point**

**JAPAN:**

**Yukio Adachi, Fuji Xerox Co., Ltd**  
 Address: 1600,Takematsu, Minamiashigara-shi  
 Kanagawa-ken, Japan 250-0111  
 Telephone Number: +81-465-70-1721/FAX Number: +81-465-70-1792  
 E-mail: msds-admin@fujixerox.co.jp

**ASIA PACIFIC REGION:**

**Kazuhiko Ando, Fuji Xerox Asia Pacific Pte Ltd**  
 Address: 77 Robinson Road # 26-00  
 SIA Building Singapore 068896  
 Telephone Number: 65 6239 2833/FAX Number:65 6239 2714  
 E-mail: Kazuhiko Ando@fxap.sgp.xerox.com

**Product Name:**

Color Laser Printer T8024 Toner(Magenta)

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Nature:

Chemical Name	Ingredients (% by wt.)	CAS Registry Number
Polyester	80-90	—
Red pigment	5-10	—
Paraffin waxes	< 5	—
Vegetable wax	< 5	—
Amorphous silica	< 5	—

UN Hazard Class : None

UN Number : None

## 3. HAZARDOUS IDENTIFICATION

Physical and Chemical Hazard: None  
 Adverse Human Health Effects: None  
 Environmental Effects: None

## 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

- Specific method : In case of fire use extinguishing media.  
When in a machine, treat as an electrical fire.
- Extinguishing media : Water spray, Foam, Dry chemicals

## 6. ACCIDENTAL RELEASE MEASURES

Shut off ignition sources. For small spills, sweep up or soak up with damp cloth.  
For large spills, wear proper protective equipment and place waste material in closed container.  
Dispose of in accordance with national and local regulations.

## 7. HANDLING AND STORAGE

- Handling : Do not incinerate toner or a toner cartridge. Do not disassemble a cartridge.
- Storage : Keep in cool, dry and well-ventilated area. Keep out of reach of children.

## 8. EXPOSURE CONTROL /PERSONAL PROTECTION

- Control Parameter  
ACGIH TLV (2003) : 10 mg/m<sup>3</sup> (Total)  
3 mg/m<sup>3</sup> (Respirable)
- Precautionary Measures : 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/Odor:	Red Powder / Faint Odor	Vapour Pressure:	Not applicable
Boiling Point(OC):	Not applicable	Softening Point:	Not available
Volatile (%):	Not applicable	Initial Boiling Point:	Not applicable
Specific Gravity(H <sub>2</sub> O=1):	Not available	Other Data:	None
Solubility in water:	Negligible		

## 10. STABILITY AND REACTIVITY

- Flash Point(OC) :Not applicable      Auto-Ignition Temperature:Not applicable
- Explosion Limit :Not applicable
- Flammability :Not flammable under conditions of use
- Spontaneous Combustibility / Reactivity with water :None
- Self-reactivity / Explosive :None
- Dust Explosive : Like most organic materials in powder form, it can form explosive mixtures when dispersed in air.
- Stability and Reactivity :Stable
- Other Data :None

## 11. TOXICOLOGICAL INFORMATION

Skin Corrosive	: None	
Skin Irritant (rabbit)	: Not an irritant	Eye Irritant (rabbit): Not an irritant
Human Patch	: Not available	
Sensitization	: Skin (guinea-pig)	: Not a sensitizer
Acute Toxicity	Swallowed→LD50 (rat)	: > 5000 mg/kg <sup>1)</sup> (practically non-toxic)
	Skin→LD50 (rabbit)	: > 5000 mg/kg <sup>1)</sup> (practically non-toxic)
	Inhaled→LC50 (rat)	: > 5 mg/L/4hr <sup>1)</sup> (practically non-toxic)

Chronic Toxicity : The results obtained from a Xerox sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1mg/m<sup>3</sup>) 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/m<sup>3</sup>) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m<sup>3</sup>) 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.<sup>1)</sup>

Carcinogenicity : Not classified as "Carcinogens"<sup>ref.1)</sup>.

Mutagenicity: Ames Assay: Negative

Reproduction and Development: Not classified as "Reproductive and Development chemicals"<sup>ref.2)</sup>.

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

## 12. ECOLOGICAL INFORMATION

Biodegradability	: Not available.
Bioaccumulation	: Not available.
Acute Toxicity	: Not available.
Other Information	: None

## 13. DISPOSAL CONSIDERATION

Dispose of 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

- ◆ 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 administrative provisions relating to the classification, packing and labelling of dangerous substances; Annex 1 (EU)
  - ◆ Journal of Occupational Health(Japan Society for Occupational Health)
- ◆ Council Directive 67/548/EEC on the approximation of the laws, regulations, and administrative provisions relating to the classification, packing and labelling of dangerous substances; Annex 1 (EU)

※XEROX, The Document Company, and the digital X are trademarks of XEROX CORPORATION.



# Material Safety Data Sheet

1/3

MSDS No.: PR037-00MK

Date

Revision : 2003.09.23

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer** :Fuji Xerox Co., Ltd  
**Address** :Akasaka Twin Tower East,  
17-22, Akasaka-2-choume,  
Minato-ku,Tokyo,Japan 107-0052

**Contact Point**

**JAPAN:**

**Yukio Adachi, Fuji Xerox Co., Ltd**  
Address: 1600,Takematsu, Minamiashigara-shi  
Kanagawa-ken, Japan 250-0111  
Telephone Number: +81-465-70-1721/FAX Number: +81-465-70-1792  
E-mail: msds-admin@fujixerox.co.jp

**ASIA PACIFIC REGION:**

**Kazuhiko Ando, Fuji Xerox Asia Pacific Pte Ltd**  
Address: 77 Robinson Road # 26-00  
SIA Building Singapore 068896  
Telephone Number: 65 6239 2833/FAX Number:65 6239 2714  
E-mail: Kazuhiko Ando@fxap.sgp.xerox.com

**Product Name:**

Color Laser Printer T8024 Photoreceptor

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

**Chemical Nature:** This product is classified as an "Article".

Chemical Name	Ingredients (% by wt.)	CAS Registry Number
Organic materials	—	—

The specific chemical identities are trade secrets.

UN Hazard Class : None

UN Number : None

## 3.HAZARDOUS IDENTIFICATION

**Physical and Chemical Hazard:** There are no significant hazards associated with this product.

**Adverse Human Health Effects:** There are no significant hazards associated with this product.

**Environmental Effects:** There are no significant hazards associated with this product.

## 4.FIRST-AID MEASURES

**Eye contact** : Not applicable.  
**Skin contact** : Wash with soap and water.  
**Inhalation** : Not applicable.  
**Ingestion** : Not applicable.



## 11. TOXICOLOGICAL INFORMATION

Skin Corrosive	: None		
Skin Irritant (rabbit)	: Not an irritant.	Eye Irritant (rabbit):	Slight irritant
Human Patch	: Not available		
Sensitization	: Skin (guinea-pig)	: Not available	
Acute Toxicity	Swallowed→LD50 (rat)	: > 2.0 g/kg	(practically non-toxic)
	Skin→LD50 (rabbit)	: Not available	
	Inhaled→LC50 (rat)	: Not available	
Chronic Toxicity	: Not known.		
Carcinogenicity	: Not contain/classified as "Carcinogens <sup>ref.1</sup> ".		
Mutagenicity: Ames Assay:	: <u>Negative</u>		
Reproduction and Development:	: Not classified as "Reproductive and Development chemicals <sup>ref.2</sup> ".		

## 12. ECOLOGICAL INFORMATION

Biodegradability	: Not available.
Bioaccumulation	: Not available.
Acute Toxicity	: Not available.
Other Information	: None

## 13. DISPOSAL CONSIDERATION

Dispose of 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

- ◆ 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)
- ◆ Council Directive 67/548/EEC on the approximation of the laws, regulations, and administratives provision s relating to the classification, packing and labelling of dangerous substaces; Annex 1 (EU)





# Material Safety Data Sheet

1/3

MSDS No.: TN129-00MO

Date

Revision : 2003.09.23

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer** :Fuji Xerox Co., Ltd  
**Address** :Akasaka Twin Tower East,  
 17-22, Akasaka-2-choume,  
 Minato-ku,Tokyo,Japan 107-0052

**Contact Point**

JAPAN:

Yukio Adachi, Fuji Xerox Co., Ltd  
 Address: 1600,Takematsu, Minamiashigara-shi  
 Kanagawa-ken, Japan 250-0111  
 Telephone Number: +81-465-70-1721/FAX Number: +81-465-70-1792  
 E-mail: msds-admin@fujixerox.co.jp

ASIA PACIFIC REGION:

Kazuhiko Ando, Fuji Xerox Asia Pacific Pte Ltd  
 Address: 77 Robinson Road # 26-00  
 SIA Building Singapore 068896  
 Telephone Number: 65 6239 2833/FAX Number:65 6239 2714  
 E-mail: Kazuhiko Ando@fxap.sgp.xerox.com

Product Name:

Color Laser Printer T8024 Toner(Yellow)

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Nature:

Chemical Name	Ingredients (% by wt.)	CAS Registry Number
Polyester	70-80	—
Yellow pigment	5-10	—
Vegetable wax	5-10	—
Paraffin waxes	< 5	—
Amorphous silica	< 5	—

UN Hazard Class : None

UN Number : None

## 3.HAZARDOUS IDENTIFICATION

Physical and Chemical Hazard: None  
 Adverse Human Health Effects: None  
 Environmental Effects: None

## 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

- Specific method : In case of fire use extinguishing media.  
When in a machine, treat as an electrical fire.
- Extinguishing media : Water spray, Foam, Dry chemicals

## 6.ACCIDENTAL RELEASE MEASURES

Shut off ignition sources. For small spills, sweep up or soak up with damp cloth.  
For large spills, wear proper protective equipment and place waste material in closed container.  
Dispose of in accordance with national and local regulations.

## 7.HANDLING AND STORAGE

- Handling : Do not incinerate toner or a toner cartridge. Do not disassemble a cartridge.
- Storage : Keep in cool, dry and well-ventilated area. Keep out of reach of children.

## 8.EXPOSURE CONTROL /PERSONAL PROTECTION

- Control Parameter  
ACGIH TLV (2003) : 10 mg/m<sup>3</sup> (Total)  
3 mg/m<sup>3</sup> (Respirable)
- Precautionary Measures : 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/Odor:	Yellow Powder / Faint Odor		
Boiling Point(OC):	Not applicable	Vapour Pressure:	Not applicable
Volatile (%):	Not applicable	Softening Point:	Not available
Specific Gravity(H <sub>2</sub> O=1):	Not available	Initial Boiling Point:	Not applicable
Solubility in water:	Negligible	Other Data:	None

## 10.STABILITY AND REACTIVITY

- Flash Point(OC) :Not applicable      Auto-Ignition Temperature:Not applicable
- Explosion Limit :Not applicable
- Flammability :Not flammable under conditions of use
- Spontaneous Combustibility / Reactivity with water :None
- Self-reactivity / Explosive :None
- Dust Explosive : Like most organic materials in powder form, it can form explosive mixtures when dispersed in air.
- Stability and Reactivity :Stable
- Other Data :None

## 11. TOXICOLOGICAL INFORMATION

Skin Corrosive	: None	
Skin Irritant (rabbit)	: Not an irritant	Eye Irritant (rabbit): Not an irritant
Human Patch	: Not available	
Sensitization	: Skin (guinea-pig)	: Not a sensitizer
Acute Toxicity	Swallowed→LD50 (rat)	: > 5000 mg/kg <sup>1)</sup> (practically non-toxic)
	Skin→LD50 (rabbit)	: > 5000 mg/kg <sup>1)</sup> (practically non-toxic)
	Inhaled→LC50 (rat)	: > 5 mg/L/4hr <sup>1)</sup> (practically non-toxic)

Chronic Toxicity : The results obtained from a Xerox sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1mg/m<sup>3</sup>) 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/m<sup>3</sup>) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m<sup>3</sup>) 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.<sup>1)</sup>

Carcinogenicity : Not classified as "Carcinogens"<sup>ref.1)</sup>.

Mutagenicity: Ames Assay: Negative

Reproduction and Development: Not classified as "Reproductive and Development chemicals"<sup>ref.2)</sup>.

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

## 12. ECOLOGICAL INFORMATION

Biodegradability	: Not available.
Bioaccumulation	: Not available.
Acute Toxicity	: Not available.
Other Information	: None

## 13. DISPOSAL CONSIDERATION

Dispose of 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

- ◆ 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 administrative provisions relating to the classification, packing and labelling of dangerous substances; Annex 1 (EU)
  - ◆ Journal of Occupational Health(Japan Society for Occupational Health)
- ◆ Council Directive 67/548/EEC on the approximation of the laws, regulations, and administrative provisions relating to the classification, packing and labelling of dangerous substances; Annex 1 (EU)

※XEROX, The Document Company, and the digital X are trademarks of XEROX CORPORATION.



# Material Safety Data Sheet

MSDS No.: DV089-00MO

Date

Revision : 2003.09.23

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer** :Fuji Xerox Co., Ltd  
**Address** :Akasaka Twin Tower East,  
 17-22, Akasaka-2-choume,  
 Minato-ku,Tokyo,Japan 107-0052

**Contact Point**

JAPAN:

Yukio Adachi, Fuji Xerox Co., Ltd  
 Address: 1600,Takematsu, Minamiashigara-shi  
 Kanagawa-ken, Japan 250-0111  
 Telephone Number: +81-465-70-1721/FAX Number: +81-465-70-1792  
 E-mail: msds-admin@fujixerox.co.jp

ASIA PACIFIC REGION:

Kazuhiko Ando, Fuji Xerox Asia Pacific Pte Ltd  
 Address: 77 Robinson Road # 26-00  
 SIA Building Singapore 068896  
 Telephone Number: 65 6239 2833/FAX Number:65 6239 2714  
 E-mail: Kazuhiko Ando@fxap.sgp.xerox.com

Product Name:

Color Laser Printer T8024 Developer(Yellow)

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Nature:

Chemical Name	Ingredients (% by wt.)	CAS Registry Number
Mn-Mg-Sr ferrite powder	90-95	—
Polyester	5-10	—
Acrylic resin	< 5	—
Yellow pigment	< 1	—
Formaldehyde/ meramine copolymer	< 1	—
Carbon black	< 1	1333-86-4

UN Hazard Class : None

UN Number : None

## 3.HAZARDOUS IDENTIFICATION

Physical and Chemical Hazard: None  
 Adverse Human Health Effects: None  
 Environmental Effects: None

## 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

- Specific method : In case of fire use extinguishing media.  
When in a machine, treat as an electrical fire.
- Extinguishing media : Water spray, Foam, Dry chemicals

## 6. ACCIDENTAL RELEASE MEASURES

Shut off ignition sources. For small spills, sweep up or soak up with damp cloth.  
For large spills, wear proper protective equipment and place waste material in closed container.  
Dispose of in accordance with national and local regulations.

## 7. HANDLING AND STORAGE

- Handling : Do not incinerate toner or a toner cartridge. Do not disassemble a cartridge.
- Storage : Keep in cool, dry and well-ventilated area. Keep out of reach of children.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

- Control Parameter  
ACGIH TLV (2003) : 10 mg/m<sup>3</sup> (Total)  
3 mg/m<sup>3</sup> (Respirable)
- Precautionary Measures : 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/Odor:	Yellow Powder / Faint Odor	Vapour Pressure:	Not applicable
Boiling Point(OC):	Not applicable	Softening Point:	Not available
Volatile (%):	Not applicable	Initial Boiling Point:	Not applicable
Specific Gravity(H <sub>2</sub> O=1):	Not available	Other Data:	None
Solubility in water:	Negligible		

## 10. STABILITY AND REACTIVITY

- Flash Point(OC) : Not applicable      Auto-Ignition Temperature: Not applicable
- Explosion Limit : Not applicable
- Flammability : Not flammable under conditions of use
- Spontaneous Combustibility / Reactivity with water : None
- Self-reactivity / Explosive : None
- Dust Explosive : Like most organic materials in powder form, it can form explosive mixtures when dispersed in air.
- Stability and Reactivity : Stable
- Other Data : None

## 11. TOXICOLOGICAL INFORMATION

Skin Corrosive	: None	
Skin Irritant (rabbit)	: Not an irritant <sup>1)</sup>	Eye Irritant (rabbit): Not an irritant <sup>1)</sup>
Human Patch	: No evidence of skin irritation or sensitization. <sup>1)</sup>	
Sensitization	: Skin (guinea-pig)	: Not a sensitizer <sup>1)</sup>
Acute Toxicity	Swallowed→LD50 (rat)	: > 5000 mg/kg <sup>1)</sup> (practically non-toxic)
	Skin→LD50 (rabbit)	: > 5000mg/ kg <sup>1)</sup> (practically non-toxic)
	Inhaled→LC50 (rat)	: > 5mg/L/4hr <sup>1)</sup> (practically non-toxic)

Chronic Toxicity : The results obtained from a Xerox sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1mg/m<sup>3</sup>) 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/m<sup>3</sup>) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m<sup>3</sup>) 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.<sup>1)</sup>

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<sup>ref.1)</sup>".

Mutagenicity: Ames Assay: Negative<sup>1)</sup>

Reproduction and Development: Not classified as "Reproductive and Development chemicals<sup>ref.2)</sup>".

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

## 12. ECOLOGICAL INFORMATION

Biodegradability	: Not available.
Bioaccumulation	: Not available.
Acute Toxicity	: Not available.
Other Information	: None

## 13. DISPOSAL CONSIDERATION

Dispose of 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

- ◆ 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)
- ◆ Council Directive 67/548/EEC on the approximation of the laws, regulations, and administratives provision s relating to the classification, packing and labelling of dangerous substaces; Annex 1 (EU)

※XEROX, The Document Company, and the digital X are trademarks of XEROX CORPORATION.



# Material Safety Data Sheet

1/3

MSDS No.: DV088-00MO

Date

Revision : 2003.09.23

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer** :Fuji Xerox Co., Ltd  
**Address** :Akasaka Twin Tower East,  
17-22, Akasaka-2-choume,  
Minato-ku,Tokyo,Japan 107-0052

**Contact Point**

**JAPAN:**

**Yukio Adachi, Fuji Xerox Co., Ltd**  
Address: 1600,Takematsu, Minamiashigara-shi  
Kanagawa-ken, Japan 250-0111  
Telephone Number: +81-465-70-1721/FAX Number: +81-465-70-1792  
E-mail: msds-admin@fujixerox.co.jp

**ASIA PACIFIC REGION:**

**Kazuhiko Ando, Fuji Xerox Asia Pacific Pte Ltd**  
Address: 77 Robinson Road # 26-00  
SIA Building Singapore 068896  
Telephone Number: 65 6239 2833/FAX Number:65 6239 2714  
E-mail: Kazuhiko Ando@fxap.sgp.xerox.com

**Product Name:**

Color Laser Printer T8024 Developer(Black)

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

**Chemical Nature:**

Chemical Name	Ingredients (% by wt.)	CAS Registry Number
Mn-Mg-Sr ferrite powder	90-95	—
Polyester	5-10	—
Acrylic resin	< 5	—
Formaldehyde/ meramine copolymer	< 1	—
Carbon black	< 1	1333-86-4

UN Hazard Class : None

UN Number : None

## 3.HAZARDOUS IDENTIFICATION

Physical and Chemical Hazard: None  
Adverse Human Health Effects: None  
Environmental Effects: None

## 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

- Specific method : In case of fire use extinguishing media.  
When in a machine, treat as an electrical fire.
- Extinguishing media : Water spray, Foam, Dry chemicals

## 6.ACCIDENTAL RELEASE MEASURES

Shut off ignition sources. For small spills, sweep up or soak up with damp cloth.  
For large spills, wear proper protective equipment and place waste material in closed container.  
Dispose of in accordance with national and local regulations.

## 7.HANDLING AND STORAGE

- Handling : Do not incinerate toner or a toner cartridge. Do not disassemble a cartridge.
- Storage : Keep in cool, dry and well-ventilated area. Keep out of reach of children.

## 8.EXPOSURE CONTROL /PERSONAL PROTECTION

- Control Parameter  
ACGIH TLV (2003) : 10 mg/m<sup>3</sup> (Total)  
3 mg/m<sup>3</sup> (Respirable)
- Precautionary Measures : 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/Odor:	Black Powder / Faint Odor	Vapour Pressure:	Not applicable
Boiling Point(OC):	Not applicable	Softening Point:	Not available
Volatile (%):	Not applicable	Initial Boiling Point:	Not applicable
Specific Gravity(H <sub>2</sub> O=1):	Not available	Other Data:	None
Solubility in water:	Negligible		

## 10.STABILITY AND REACTIVITY

- Flash Point(OC) :Not applicable      Auto-Ignition Temperature:Not applicable
- Explosion Limit :Not applicable
- Flammability :Not flammable under conditions of use
- Spontaneous Combustibility / Reactivity with water :None
- Self-reactivity / Explosive :None
- Dust Explosive : Like most organic materials in powder form, it can form explosive mixtures when dispersed in air.
- Stability and Reactivity :Stable
- Other Data :None



## 11. TOXICOLOGICAL INFORMATION

Skin Corrosive	: None	
Skin Irritant (rabbit)	: Not an irritant <sup>1)</sup>	Eye Irritant (rabbit): Not an irritant <sup>1)</sup>
Human Patch	: No evidence of skin irritation or sensitization. <sup>1)</sup>	
Sensitization	: Skin (guinea-pig)	: Not a sensitizer <sup>1)</sup>
Acute Toxicity	Swallowed→LD50 (rat)	: > 5000 mg/kg <sup>1)</sup> (practically non-toxic)
	Skin→LD50 (rabbit)	: > 5000mg/ kg <sup>1)</sup> (practically non-toxic)
	Inhaled→LC50 (rat)	: > 5mg/L/4hr <sup>1)</sup> (practically non-toxic)

Chronic Toxicity : The results obtained from a Xerox sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1mg/m<sup>3</sup>) 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/m<sup>3</sup>) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m<sup>3</sup>) 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.<sup>1)</sup>

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"<sup>ref.1)</sup>.

Mutagenicity: Ames Assay: Negative<sup>1)</sup>

Reproduction and Development: Not classified as "Reproductive and Development chemicals"<sup>ref.2)</sup>.

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

## 12. ECOLOGICAL INFORMATION

Biodegradability	: Not available.
Bioaccumulation	: Not available.
Acute Toxicity	: Not available.
Other Information	: None

## 13. DISPOSAL CONSIDERATION

Dispose of 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

- ◆ 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)
- ◆ Council Directive 67/548/EEC on the approximation of the laws, regulations, and administratives provision s relating to the classification, packing and labelling of dangerous substaces; Annex 1 (EU)

※XEROX, The Document Company, and the digital X are trademarks of XEROX CORPORATION.



# Material Safety Data Sheet

MSDS No.: TN128-00MO

Date

Revision : 2003.09.23

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer** :Fuji Xerox Co., Ltd  
**Address** :Akasaka Twin Tower East,  
17-22, Akasaka-2-choume,  
Minato-ku,Tokyo,Japan 107-0052

**Contact Point**

JAPAN:

Yukio Adachi, Fuji Xerox Co., Ltd  
Address: 1600,Takematsu, Minamiashigara-shi  
Kanagawa-ken, Japan 250-0111  
Telephone Number: +81-465-70-1721/FAX Number: +81-465-70-1792  
E-mail: msds-admin@fujixerox.co.jp

ASIA PACIFIC REGION:

Kazuhiko Ando, Fuji Xerox Asia Pacific Pte Ltd  
Address: 77 Robinson Road # 26-00  
SIA Building Singapore 068896  
Telephone Number: 65 6239 2833/FAX Number:65 6239 2714  
E-mail: Kazuhiko Ando@fxap.sgp.xerox.com

**Product Name:**

Color Laser Printer T8024 Toner(Black)

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Nature:

Chemical Name	Ingredients (% by wt.)	CAS Registry Number
Polyester	80-90	—
Carbon black	< 5	1333-86-4
Paraffin waxes	< 5	—
Vegetable wax	< 5	—
Amorphous silica	< 5	—

UN Hazard Class : None

UN Number : None

## 3.HAZARDOUS IDENTIFICATION

Physical and Chemical Hazard: None  
Adverse Human Health Effects: None  
Environmental Effects: None

## 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

- Specific method : In case of fire use extinguishing media.  
When in a machine, treat as an electrical fire.
- Extinguishing media : Water spray, Foam, Dry chemicals

## 6. ACCIDENTAL RELEASE MEASURES

Shut off ignition sources. For small spills, sweep up or soak up with damp cloth.  
For large spills, wear proper protective equipment and place waste material in closed container.  
Dispose of in accordance with national and local regulations.

## 7. HANDLING AND STORAGE

- Handling : Do not incinerate toner or a toner cartridge. Do not disassemble a cartridge.
- Storage : Keep in cool, dry and well-ventilated area. Keep out of reach of children.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

- Control Parameter  
ACGIH TLV (2003) : 10 mg/m<sup>3</sup> (Total)  
3 mg/m<sup>3</sup> (Respirable)
- Precautionary Measures : 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/Odor:	Black Powder / Faint Odor	Vapour Pressure:	Not applicable
Boiling Point(OC):	Not applicable	Softening Point:	Not available
Volatile (%):	Not applicable	Initial Boiling Point:	Not applicable
Specific Gravity(H <sub>2</sub> O=1):	Not available	Other Data:	None
Solubility in water:	Negligible		

## 10. STABILITY AND REACTIVITY

- Flash Point(OC) : Not applicable      Auto-Ignition Temperature: Not applicable
- Explosion Limit : Not applicable
- Flammability : Not flammable under conditions of use
- Spontaneous Combustibility / Reactivity with water : None
- Self-reactivity / Explosive : None
- Dust Explosive : Like most organic materials in powder form, it can form explosive mixtures when dispersed in air.
- Stability and Reactivity : Stable
- Other Data : None

## 11. TOXICOLOGICAL INFORMATION

Skin Corrosive	: None	
Skin Irritant (rabbit)	: Not an irritant	Eye Irritant (rabbit): Not an irritant
Human Patch	: Not available	
Sensitization	: Skin (guinea-pig)	: Not a sensitizer
Acute Toxicity	Swallowed→LD50 (rat)	: > 5000 mg/kg <sup>1)</sup> (practically non-toxic)
	Skin→LD50 (rabbit)	: > 5000 mg/kg <sup>1)</sup> (practically non-toxic)
	Inhaled→LC50 (rat)	: > 5 mg/L/4hr <sup>1)</sup> (practically non-toxic)

Chronic Toxicity : The results obtained from a Xerox sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1mg/m<sup>3</sup>) 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/m<sup>3</sup>) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m<sup>3</sup>) 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 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.<sup>1)</sup>

Carcinogenicity : Not classified as "Carcinogens"<sup>ref.1)</sup>.

Mutagenicity: Ames Assay: Negative

Reproduction and Development: Not classified as "Reproductive and Development chemicals"<sup>ref.2)</sup>.

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

## 12. ECOLOGICAL INFORMATION

Biodegradability	: Not available.
Bioaccumulation	: Not available.
Acute Toxicity	:
	Fish 96hr LC50 (Oryzias latipes): > 500 mg/L
	Daphnia 48hr EC50 (Daphnia magna): > 100 mg/L
	Algae 72hr IC50 (Selenastrum capricornutum): > 100 mg/L
Other Information	: None

## 13. DISPOSAL CONSIDERATION

Dispose of 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

- ◆ 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 administrative provisions relating to the classification, packing and labelling of dangerous substances; Annex 1 (EU)
    - ◆ Journal of Occupational Health(Japan Society for Occupational Health)
  - ◆ Council Directive 67/548/EEC on the approximation of the laws, regulations, and administrative provisions relating to the classification, packing and labelling of dangerous substances; Annex 1 (EU)
- ※XEROX, The Document Company, and the digital X are trademarks of XEROX CORPORATION.