

# SAFETY DATA SHEET

**Toner powder (cartridge) for  
C941 / C931 / C911 series**

**Oki Data Corporation**

## SAFETY DATA SHEET

### 1. Identification of the substance/preparation and of the company/undertaking

**Product name** : Black Toner powder (cartridge) for  
 C941 / C931 / C911 series  
 ( Toner powder name : OKT5K )

**Manufacturer** : Oki Data Corporation  
 3-1, Futaba-cho, Takasaki-shi, GUNMA, 370-8585 JAPAN  
 Tel. +81-27-328-6366. Fax +81-27-328-6396

**Supplier**     **Australia** : Oki Data Australia Pty Ltd  
 Level 1, 67 Epping Road , Macquarie Park NSW 2113, Australia  
 Tel: 02 8071 0000  
 Emergency telephone number: 1800 800 140  
 Emergency email contact: aus-MSDSQuestions@oki.com

**New Zealand** : Comworth Systems Ltd.  
 8 Antares Place, Rosedale, Auckland, NewZealand  
 Tel: 0800 778800  
 email: helpdesk@comworth.co.nz

### 2. Hazards 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	:	Classification not possible
Self-reactive substances and mixtures	:	Classification not possible
Pyrophoric liquids	:	Not applicable
Pyrophoric solids	:	Classification not possible
Self-heating substances and mixtures	:	Classification not possible
Substances and mixtures, which in contact with water, emit flammable gases	:	Classification not possible
Oxidizing liquids	:	Not applicable
Oxidizing solids	:	Classification not possible
Organic peroxides	:	Classification not possible
Corrosive to metals	:	Classification not possible

##### Health Hazards

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation: dust, mist)	:	Not classified
Skin corrosion / irritation	:	Not classified
Serious eye damage / eye irritation	:	Not classified
Respiratory sensitizer	:	Classification not possible
Skin sensitizer	:	Not classified
Germ cell mutagenicity	:	Classification not possible
Carcinogenicity	:	Classification not possible
Toxic to reproduction	:	Classification not possible
Specific target organs/systemic toxicity following single exposure	:	Classification not possible
Specific target organs/systemic toxicity following repeated exposure	:	Classification not possible
Aspiration hazard	:	Classification not possible

##### Environmental Hazards

Hazardous to the aquatic environment (acute)	:	Classification not possible
Hazardous to the aquatic environment (chronic)	:	Classification not possible

In accordance with GHS classification criteria, this product is not classified as hazardous mixture.

## SAFETY DATA SHEET

**Indication of danger:**

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 99/45/EC and their various amendments and adaptations.

**[Potential Health Effects]**

**Ingestion Effects** : Ingestion is not applicable route of entry for intended use.  
**Inhalation Effects** : Minimal respiratory tract irritation may occur with exposure to large amount of toner dust.  
**Eye Effects** : Solid or dusts may cause irritation or scratch the surface of eye.  
**Skin Effects** : Unlikely to cause skin irritation.

**[Environmental Hazards]**

No particular hazards known.

### 3. Composition/information on ingredients

[Composition / Information] : Mixture

**Ingredient(s):**

Chemical Name/ Generic Name	CAS No.	Proportion (%)	OSHA PEL	ACGIH TLV	Other Limits
Styrene acrylate copolymer	Proprietary	80-90	Not applicable	Not applicable	Not available
Wax	Proprietary	5-15	Not applicable	Not applicable	Not available
Carbon black	1333-86-4	3-10	3.5mg/m3	3.5mg/m3	Not available
Silica	7631-86-9	1-3	20mppcf(*), 80(mg/m3)/%SiO2	Not listed	Not available
Titanium dioxide	13463-67-7	0.1-0.9	15 mg/m3	10 mg/m3	Not available

(\* ) million particles/cubic foot

[Further Information] : No known.

### 4. First-aid measures

**Ingestion** : Dilute stomach contents with several glasses of water.  
Get medical attention if symptoms persist.  
**Inhalation** : Move person to fresh air immediately. If symptoms occur, consult a physician.  
**Eye Contact** : Immediately flush with large amount of clean water for at least 15 minutes.  
If irritation persists, consult a physician.  
**Skin Contact** : Wash affected areas thoroughly with soap and water. If irritation persists, consult a physician.

### 5. Fire-fighting measures

**Extinguishing Media** : Water, foam, dry chemical  
**Special Fire-fighting Procedure** : Keep personnel removed from and upwind of fire. Wear respiratory protection.  
Cool container with water spray.  
**Unusual Fire & Explosion Hazards** : Toner material, like most organic material in powder form, is capable of creating a dust explosion.

### 6. Accidental release measures

**Spill and Leakage Procedure** : Wear personal protective equipment as described in Section 8. Avoid breathing dust.  
Minimize the release of particles. Vacuum or sweep the material into a bag or other sealed container. Dispose of waste toner in accordance with local requirements.  
**Environmental precautions** : Do not discharge into drains.

### 7. Handling and storage

**Advise on safe handling and protection against fire** : Keep material out of reach of children. Avoid inhalation of dust and contact with eyes. Keep away from excessive heat, sparks, and open flames.  
**Requirements for storage rooms and advice on compatibility** : Keep out of the reach of children. Keep container closed and store at room temperature. Keep away from strong oxidizers.

## SAFETY DATA SHEET

### 8. Exposure controls/personal protection

#### Occupational Exposure Limits

ACGIH TLV	:	Particulates (Insoluble) Not Otherwise Specified 10mg/m <sup>3</sup> (Inhalable Particulate) 3mg/m <sup>3</sup> (Respirable Particulate)
OSHA PEL	:	Inert or Nuisance Dust 15mg/m <sup>3</sup> (Total dust) 5mg/m <sup>3</sup> (Respirable fraction)
Respiratory	:	Dust respiratory mask
Ventilation	:	Good general ventilation should be sufficient under intended use.
Protective Gloves	:	Use leather gloves for hand protection.
Eye Protection	:	Protecting glasses
Other Protective Equipment	:	Not required under intended use.

### 9. Physical and chemical properties

Appearance and odor	:	Fine powder, black, slight plastic odor.
Density	:	About 1.2g/ cm <sup>3</sup>
Boiling Point	:	Not applicable
Melting Point	:	Not applicable
Solubility in Water	:	Negligible
Solubility in Other	:	Partially soluble in toluene and THF
Percent Volatile by	:	Not applicable
Flammable Limits	:	Not applicable
Flash Point	:	Not applicable
Log Po/w	:	Not applicable
Explosibility	:	No data available.
Flammability	:	No data available.

### 10. Stability and reactivity

Stability & Reactivity	:	Stable. Hazardous polymerization will not occur.
Materials to Avoid	:	None
Hazardous Decomposition products	:	Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide.

### 11. Toxicological information

Acute toxicity (oral)	:	LD50 of this product is >5000mg/kg (rat). *1
Acute toxicity (dermal)	:	Acute dermal toxicity : LD50 > 5000mg/kg (rat). *1
Acute toxicity (inhalation: dust, mist)	:	Acute inhalation toxicity : LC50 > 5.10mg/L (rat). *1
Skin corrosion / irritation	:	Based on the result of skin irritation study, this product is classified as a nonirritant to the dermal tissue of the rabbit. *1
Serious eye damage / eye irritation	:	Based on the result of the eye irritation study, this product is classified as a nonirritant to the ocular tissue of the rabbit. *1
Respiratory sensitizer	:	No test data available.
Skin sensitizer	:	Based on the result of the skin sensitization study in mouse, the skin sensitizing potential of this product was considered negative. *1
Germ cell mutagenicity	:	Based on the result of Ames test (Salmonella typhimurium), this product has negative mutagenicity. *1
Carcinogenicity	:	No data available.  In 1996 the IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This classification is given to chemicals for which there are inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity.  The classification 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. Studies performed in animal models other than rats did not show any 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.  IARC has issued a notice that they will publish a monograph that lists titanium dioxide (TiO <sub>2</sub> ) as possibly carcinogenic to humans (Group 2B) by inhalation (based solely on animal data).  Human epidemiology studies do not suggest an increased risk of cancer in humans for occupational exposure to titanium dioxide.  IARC stated that exposure levels are assumed to be lower in the user industries, with the possible exception of workers who handle large quantities of titanium dioxide.

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		IARC stated that exposure levels are assumed to be lower in the user industries, with the possible exception of workers who handle large quantities of titanium dioxide.
		No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as in paints.
		Other ingredients in this product are not classified as any carcinogen. *2
<b>Toxic to reproduction</b>	:	No test data available.
<b>Specific target organs/ systemic toxicity following single exposure</b>	:	No test data available.
<b>Specific target organs/ systemic toxicity following repeated exposure</b>	:	Oral : No test data available. Dermal : No test data available. Inhalation : No test data available. In a study in rats of chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the 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. The quantity of toner exhausted with the normal use of this product is estimated less than 1mg/m3 per day.
<b>Aspiration hazard</b>	:	No test data available.

### 12. Ecological information

No data available for ecological and wastewater treatment (sewage) systems. Avoid spills and dispose of in accordance with applicable laws and regulations.

**Aquatic Environment** : According to acute toxicity test with Medaka (*Oryzias latipes*), no toxicological symptom was observed in the control and all concentration levels during exposure (96 hours). \*1

### 13. Disposal considerations

#### [Waste From This Product]

Waste material may be dumped or incinerated on condition that meets all country, state and local environmental regulations.  
Recommendation: consult with the disposal agency and the relevant authorities; cleansing agent is water.

### 14. Transport information

#### [International Transport Information]

**UN Number** : None (ADR/RID, ADNR, IMDG, IATA)  
**Hazards Class** : None

### 15. Regulatory information

**Label Information According to the DIRECTIVE 1999/45/EC (EU)** : None

#### Inventories

ENCS (Japan)	:	Yes	
TSCA (USA)	:	Yes	
EINECS / ELINCS (EU)	:	Yes	
AICS (Australia)	:	Yes	
DSL (Canada)	:	Yes	(NDSL : No)
ECL (Korea)	:	Yes	
PICCS (Philippines)	:	Yes	
IECSC (China)	:	Yes	

All ingredients are registered under the industrial Chemicals (Notification and Assessment) Act 1989, or under the polymer exemption.

All ingredients are exempt, registered or considered polymer under The Australian Inventory of Chemical Substances (AICS) with Directive NIC504735 : not classified.

Please refer to any other national measures that may be relevant.

### 16. Other information

#### [SDS STATUS]

##### Documents list

- \*1 In-house data
- \*2 ·EC-directives 67/548/EEC and 99/45/EC
- IARC Monographs volumes 1-103
- EPA, Proposed Guidelines for Carcinogen Risk Assessment (1986)

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**SAFETY DATA SHEET**

**1. Identification of the substance/preparation and of the company/undertaking**

Product name : Yellow Toner powder (cartridge) for C941 / C931 / C911 series ( Toner powder name : OKT5Y )

Manufacturer : Oki Data Corporation  
3-1, Futaba-cho, Takasaki-shi, GUNMA, 370-8585 JAPAN  
Tel. +81-27-328-6366. Fax +81-27-328-6396

Supplier Australia : Oki Data Australia Pty Ltd  
Level 1, 67 Epping Road , Macquarie Park NSW 2113, Australia  
Tel: 02 8071 0000  
Emergency telephone number: 1800 800 140  
Emergency email contact: aus-MSDSQuestions@oki.com

New Zealand : Comworth Systems Ltd.  
8 Antares Place, Rosedale, Auckland, NewZealand  
Tel: 0800 778800  
email: helpdesk@comworth.co.nz

**2. Hazards 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	:	Classification not possible
Self-reactive substances and mixtures	:	Classification not possible
Pyrophoric liquids	:	Not applicable
Pyrophoric solids	:	Classification not possible
Self-heating substances and mixtures	:	Classification not possible
Substances and mixtures, which in contact with water, emit flammable gases	:	Classification not possible
Oxidizing liquids	:	Not applicable
Oxidizing solids	:	Classification not possible
Organic peroxides	:	Classification not possible
Corrosive to metals	:	Classification not possible

**Health Hazards**

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Classification not possible
Acute toxicity (inhalation: dust, mist)	:	Classification not possible
Skin corrosion / irritation	:	Not classified
Serious eye damage / eye irritation	:	Classification not possible
Respiratory sensitizer	:	Classification not possible
Skin sensitizer	:	Not classified
Germ cell mutagenicity	:	Classification not possible
Carcinogenicity	:	Classification not possible
Toxic to reproduction	:	Classification not possible
Specific target organs/systemic toxicity following single exposure	:	Classification not possible
Specific target organs/systemic toxicity following repeated exposure	:	Classification not possible
Aspiration hazard	:	Classification not possible

**Environmental Hazards**

Hazardous to the aquatic environment (acute)	:	Classification not possible
Hazardous to the aquatic environment (chronic)	:	Classification not possible

In accordance with GHS classification criteria, this product is not classified as hazardous mixture.

## SAFETY DATA SHEET

### Indication of danger:

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 99/45/EC and their various amendments and adaptations.

### [Potential Health Effects]

**Ingestion Effects** : Ingestion is not applicable route of entry for intended use.  
**Inhalation Effects** : Minimal respiratory tract irritation may occur with exposure to large amount of toner dust.  
**Eye Effects** : Solid or dusts may cause irritation or scratch the surface of eye.  
**Skin Effects** : Unlikely to cause skin irritation.

### [Environmental Hazards]

No particular hazards known.

## 3. Composition/information on ingredients

[Composition / Information] : Mixture

### Ingredient(s):

Chemical Name/ Generic Name	CAS No.	Proportion (%)	OSHA PEL	ACGIH TLV	Other Limits
Styrene acrylate copolymer	Proprietary	80-90	Not applicable	Not applicable	Not available
Wax	Proprietary	5-15	Not applicable	Not applicable	Not available
Yellow pigment	Proprietary	3-10	Not listed	Not listed	Not available
Silica	7631-86-9	1-3	20mppcf(*), 80(mg/m3)/%SiO <sub>2</sub>	Not listed	Not available
Titanium dioxide	13463-67-7	0.1-0.9	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	Not available

(\* ) million particles/cubic foot

[Further Information] : No known.

## 4. First-aid measures

**Ingestion** : Dilute stomach contents with several glasses of water.  
Get medical attention if symptoms persist.  
**Inhalation** : Move person to fresh air immediately. If symptoms occur, consult a physician.  
**Eye Contact** : Immediately flush with large amount of clean water for at least 15 minutes.  
If irritation persists, consult a physician.  
**Skin Contact** : Wash affected areas thoroughly with soap and water. If irritation persists, consult a physician.

## 5. Fire-fighting measures

**Extinguishing Media** : Water, foam, dry chemical  
**Special Fire-fighting Procedure** : Keep personnel removed from and upwind of fire. Wear respiratory protection.  
Cool container with water spray.  
**Unusual Fire & Explosion Hazards** : Toner material, like most organic material in powder form, is capable of creating a dust explosion.

## 6. Accidental release measures

**Spill and Leakage Procedure** : Wear personal protective equipment as described in Section 8. Avoid breathing dust.  
Minimize the release of particles. Vacuum or sweep the material into a bag or other sealed container. Dispose of waste toner in accordance with local requirements.  
**Environmental precautions** : Do not discharge into drains.

## 7. Handling and storage

**Advise on safe handling and protection against fire** : Keep material out of reach of children. Avoid inhalation of dust and contact with eyes. Keep away from excessive heat, sparks, and open flames.  
**Requirements for storage rooms and advice on compatibility** : Keep out of the reach of children. Keep container closed and store at room temperature. Keep away from strong oxidizers.

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### 8. Exposure controls/personal protection

#### Occupational Exposure Limits

ACGIH TLV	:	Particulates (Insoluble) Not Otherwise Specified 10mg/m3 (Inhalable Particulate) 3mg/m3 (Respirable Particulate)
OSHA PEL	:	Inert or Nuisance Dust 15mg/m3 (Total dust) 5mg/m3 (Respirable fraction)
Respiratory	:	Dust respiratory mask
Ventilation	:	Good general ventilation should be sufficient under intended use.
Protective Gloves	:	Use leather gloves for hand protection.
Eye Protection	:	Protecting glasses
Other Protective Equipment	:	Not required under intended use.

### 9. Physical and chemical properties

Appearance and odor	:	Fine powder, yellow, slight plastic odor.
Density	:	About 1.2g/ cm3
Boiling Point	:	Not applicable
Melting Point	:	Not applicable.
Solubility in Water	:	Negligible
Solubility in Other	:	Partially soluble in toluene and THF
Percent Volatile by	:	Not applicable
Flammable Limits	:	Not applicable
Flash Point	:	Not applicable
Log Po/w	:	Not applicable
Explosibility	:	No data available.
Flammability	:	No data available.

### 10. Stability and reactivity

Stability & Reactivity	:	Stable. Hazardous polymerization will not occur.
Materials to Avoid	:	None
Hazardous	:	Combustion will produce carbon dioxide and, possibly toxic chemicals
Decomposition products	:	such as carbon monoxide.

### 11. Toxicological information

Acute toxicity (oral)	:	Test result of similar product shows LD50 >5000mg/kg. *1
Acute toxicity (dermal)	:	No test data available.
Acute toxicity (inhalation: dust, mist)	:	No test data available.
Skin corrosion / irritation	:	Based on the result of skin irritation study, this product is classified as a nonirritant to the dermal tissue of the rabbit. *1
Serious eye damage / eye irritation	:	No test data available.
Respiratory sensitizer	:	No test data available.
Skin sensitizer	:	Based on the result of the skin sensitization study in mouse, the skin sensitizing potential of this product was considered negative. *1
Germ cell mutagenicity	:	Based on the result of Ames test (Salmonella typhimurium), this product has negative mutagenicity. *1
Carcinogenicity	:	No data available. IARC has issued a notice that they will publish a monograph that lists titanium dioxide (TiO <sub>2</sub> ) as possibly carcinogenic to humans (Group 2B) by inhalation (based solely on animal data). Human epidemiology studies do not suggest an increased risk of cancer in humans for occupational exposure to titanium dioxide. IARC stated that exposure levels are assumed to be lower in the user industries, with the possible exception of workers who handle large quantities of titanium dioxide. IARC stated that exposure levels are assumed to be lower in the user industries, with the possible exception of workers who handle large quantities of titanium dioxide. No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as in paints. Other ingredients in this product are not classified as any carcinogen. *2
Toxic to reproduction	:	No test data available.



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Specific target organs/ systemic toxicity following single exposure : No test data available.

Specific target organs/ systemic toxicity following repeated exposure : Oral : No test data available.  
Dermal : No test data available.  
Inhalation : No test data available.  
In a study in rats of chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m<sup>3</sup>) exposure group. And a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/ m<sup>3</sup>) exposure group.  
But no pulmonary change was reported in the lowest (1mg/ m<sup>3</sup>) exposure group, the most relevant level to potential human exposures. The quantity of toner exhausted with the normal use of this product is estimated less than 1mg/m<sup>3</sup> per day.

Aspiration hazard : No test data available.

### 12. Ecological information

No data available for ecological and wastewater treatment (sewage) systems. Avoid spills and dispose of in accordance with applicable laws and regulations.

Aquatic Environment : No data available.

### 13. Disposal considerations

#### [Waste From This Product]

Waste material may be dumped or incinerated on condition that meets all country, state and local environmental regulations.  
Recommendation: consult with the disposal agency and the relevant authorities; cleansing agent is water.

### 14. Transport information

#### [International Transport Information]

UN Number : None ( ADR/RID, ADNR, IMDG, IATA )  
Hazards Class : None

### 15. Regulatory information

Label Information According to the DIRECTIVE 1999/45/EC (EU) : None

#### Inventories

ENCS (Japan)	:	Yes	
TSCA (USA)	:	Yes	
EINECS / ELINCS (EU)	:	Yes	
AICS (Australia)	:	Yes	
DSL (Canada)	:	Yes	(NDSL : No)
ECL (Korea)	:	Yes	
PICCS (Philippines)	:	Yes	
IECSC (China)	:	Yes	

All ingredients are registered under the industrial Chemicals (Notification and Assessment ) Act 1989 , or under the polymer exemption.

All ingredients are exempt, registered or considered polymer under The Australian Inventory of Chemical Substances (AICS) with Directive NIC504735 : not classified.

Please refer to any other national measures that may be relevant.

### 16. Other information

#### [SDS STATUS]

##### Documents list

- \*1 In-house data
- \*2 ·EC-directives 67/548/EEC and 99/45/EC
- IARC Monographs volumes 1-103
- EPA, Proposed Guidelines for Carcinogen Risk Assessment (1986)

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**SAFETY DATA SHEET**

**1. Identification of the substance/preparation and of the company/undertaking**

Product name : Magenta Toner powder (cartridge) for  
C941 / C931 / C911 series  
( Toner powder name : OKT5M )

Manufacturer : Oki Data Corporation  
3-1, Futaba-cho, Takasaki-shi, GUNMA, 370-8585 JAPAN  
Tel. +81-27-328-6366. Fax +81-27-328-6396

Supplier Australia : Oki Data Australia Pty Ltd  
Level 1, 67 Epping Road , Macquarie Park NSW 2113, Australia  
Tel: 02 8071 0000  
Emergency telephone number: 1800 800 140  
Emergency email contact: aus-MSDSQuestions@oki.com

New Zealand : Comworth Systems Ltd.  
8 Antares Place, Rosedale, Auckland, NewZealand  
Tel: 0800 778800  
email: helpdesk@comworth.co.nz

**2. Hazards 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	:	Classification not possible
Self-reactive substances and mixtures	:	Classification not possible
Pyrophoric liquids	:	Not applicable
Pyrophoric solids	:	Classification not possible
Self-heating substances and mixtures	:	Classification not possible
Substances and mixtures, which in contact with water, emit flammable gases	:	Classification not possible
Oxidizing liquids	:	Not applicable
Oxidizing solids	:	Classification not possible
Organic peroxides	:	Classification not possible
Corrosive to metals	:	Classification not possible

**Health Hazards**

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Classification not possible
Acute toxicity (inhalation: dust, mist)	:	Classification not possible
Skin corrosion / irritation	:	Not classified
Serious eye damage / eye irritation	:	Classification not possible
Respiratory sensitizer	:	Classification not possible
Skin sensitizer	:	Not classified
Germ cell mutagenicity	:	Classification not possible
Carcinogenicity	:	Classification not possible
Toxic to reproduction	:	Classification not possible
Specific target organs/systemic toxicity following single exposure	:	Classification not possible
Specific target organs/systemic toxicity following repeated exposure	:	Classification not possible
Aspiration hazard	:	Classification not possible

**Environmental Hazards**

Hazardous to the aquatic environment (acute)	:	Classification not possible
Hazardous to the aquatic environment (chronic)	:	Classification not possible

In accordance with GHS classification criteria, this product is not classified as hazardous mixture.

## SAFETY DATA SHEET

**Indication of danger:**

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 99/45/EC and their various amendments and adaptations.

**[Potential Health Effects]**

**Ingestion Effects** : Ingestion is not applicable route of entry for intended use.  
**Inhalation Effects** : Minimal respiratory tract irritation may occur with exposure to large amount of toner dust.  
**Eye Effects** : Solid or dusts may cause irritation or scratch the surface of eye.  
**Skin Effects** : Unlikely to cause skin irritation.

**[Environmental Hazards]**

No particular hazards known.

### 3. Composition/information on ingredients

**[Composition / Information]** : Mixture

**Ingredient(s):**

Chemical Name/ Generic Name	CAS No.	Proportion (%)	OSHA PEL	ACGIH TLV	Other Limits
Styrene acrylate copolymer	Proprietary	80-90	Not applicable	Not applicable	Not available
Wax	Proprietary	5-15	Not applicable	Not applicable	Not available
Red pigment	Proprietary	3-10	Not listed	Not listed	Not available
Silica	7631-86-9	1-3	20mppcf(*), 80(mg/m3)/%SiO2	Not listed	Not available
Titanium dioxide	13463-67-7	0.1-0.9	15 mg/m3	10 mg/m3	Not available

(\* ) million particles/cubic foot

**[Further Information]** : No known.

### 4. First-aid measures

**Ingestion** : Dilute stomach contents with several glasses of water.  
Get medical attention if symptoms persist.  
**Inhalation** : Move person to fresh air immediately. If symptoms occur, consult a physician.  
**Eye Contact** : Immediately flush with large amount of clean water for at least 15 minutes.  
If irritation persists, consult a physician.  
**Skin Contact** : Wash affected areas thoroughly with soap and water. If irritation persists, consult a physician.

### 5. Fire-fighting measures

**Extinguishing Media** : Water, foam, dry chemical  
**Special Fire-fighting Procedure** : Keep personnel removed from and upwind of fire. Wear respiratory protection.  
Cool container with water spray.  
**Unusual Fire & Explosion Hazards** : Toner material, like most organic material in powder form, is capable of creating a dust explosion.

### 6. Accidental release measures

**Spill and Leakage Procedure** : Wear personal protective equipment as described in Section 8. Avoid breathing dust.  
Minimize the release of particles. Vacuum or sweep the material into a bag or other sealed container. Dispose of waste toner in accordance with local requirements.  
**Environmental precautions** : Do not discharge into drains.

### 7. Handling and storage

**Advise on safe handling and protection against fire** : Keep material out of reach of children. Avoid inhalation of dust and contact with eyes. Keep away from excessive heat, sparks, and open flames.  
**Requirements for storage rooms and advice on compatibility** : Keep out of the reach of children. Keep container closed and store at room temperature. Keep away from strong oxidizers.

## SAFETY DATA SHEET

### 8. Exposure controls/personal protection

#### Occupational Exposure Limits

ACGIH TLV	:	Particulates (Insoluble) Not Otherwise Specified 10mg/m3 (Inhalable Particulate) 3mg/m3 (Respirable Particulate)
OSHA PEL	:	Inert or Nuisance Dust 15mg/m3 (Total dust) 5mg/m3 (Respirable fraction)
Respiratory	:	Dust respiratory mask
Ventilation	:	Good general ventilation should be sufficient under intended use.
Protective Gloves	:	Use leather gloves for hand protection.
Eye Protection	:	Protecting glasses
Other Protective Equipment	:	Not required under intended use.

### 9. Physical and chemical properties

Appearance and odor	:	Fine powder, red, slight plastic odor.
Density	:	About 1.2g/ cm3
Boiling Point	:	Not applicable
Melting Point	:	Not applicable.
Solubility in Water	:	Negligible
Solubility in Other	:	Partially soluble in toluene and THF
Percent Volatile by	:	Not applicable
Flammable Limits	:	Not applicable
Flash Point	:	Not applicable
Log Po/w	:	Not applicable
Explosibility	:	No data available.
Flammability	:	No data available.

### 10. Stability and reactivity

Stability & Reactivity	:	Stable. Hazardous polymerization will not occur.
Materials to Avoid	:	None
Hazardous	:	Combustion will produce carbon dioxide and, possibly toxic chemicals
Decomposition products	:	such as carbon monoxide.

### 11. Toxicological information

Acute toxicity (oral)	:	Test result of similar product shows LD50 >5000mg/kg. *1
Acute toxicity (dermal)	:	No test data available.
Acute toxicity (inhalation: dust, mist)	:	No test data available.
Skin corrosion / irritation	:	Based on the result of skin irritation study, this product is classified as a nonirritant to the dermal tissue of the rabbit. *1
Serious eye damage / eye irritation	:	No test data available.
Respiratory sensitizer	:	No test data available.
Skin sensitizer	:	Based on the result of the skin sensitization study in mouse, the skin sensitizing potential of this product was considered negative. *1
Germ cell mutagenicity	:	Based on the result of Ames test (Salmonella typhimurium), this product has negative mutagenicity. *1
Carcinogenicity	:	No data available. IARC has issued a notice that they will publish a monograph that lists titanium dioxide (TiO2) as possibly carcinogenic to humans (Group 2B) by inhalation (based solely on animal data). Human epidemiology studies do not suggest an increased risk of cancer in humans for occupational exposure to titanium dioxide. IARC stated that exposure levels are assumed to be lower in the user industries, with the possible exception of workers who handle large quantities of titanium dioxide. IARC stated that exposure levels are assumed to be lower in the user industries, with the possible exception of workers who handle large quantities of titanium dioxide. No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as in paints. Other ingredients in this product are not classified as any carcinogen. *2
Toxic to reproduction	:	No test data available.

## SAFETY DATA SHEET

Specific target organs/  
systemic toxicity  
following single  
exposure : No test data available.

Specific target organs/  
systemic toxicity  
following repeated  
exposure : Oral : No test data available.  
Dermal : No test data available.  
Inhalation : No test data available.  
In a study in rats of chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m<sup>3</sup>) exposure group. And a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/ m<sup>3</sup>) exposure group.  
But no pulmonary change was reported in the lowest (1mg/ m<sup>3</sup>) exposure group, the most relevant level to potential human exposures. The quantity of toner exhausted with the normal use of this product is estimated less than 1mg/m<sup>3</sup> per day.

Aspiration hazard : No test data available.

### 12. Ecological information

No data available for ecological and wastewater treatment (sewage) systems. Avoid spills and dispose of in accordance with applicable laws and regulations.

Aquatic Environment : No data available.

### 13. Disposal considerations

#### [Waste From This Product]

Waste material may be dumped or incinerated on condition that meets all country, state and local environmental regulations.  
Recommendation: consult with the disposal agency and the relevant authorities; cleansing agent is water.

### 14. Transport information

#### [International Transport Information]

UN Number : None ( ADR/RID, ADNR, IMDG, IATA )  
Hazards Class : None

### 15. Regulatory information

Label Information According to the DIRECTIVE 1999/45/EC (EU) : None

#### Inventories

ENCS (Japan)	:	Yes	
TSCA (USA)	:	Yes	
EINECS / ELINCS (EU)	:	Yes	
AICS (Australia)	:	Yes	
DSL (Canada)	:	Yes	(NDSL : No)
ECL (Korea)	:	Yes	
PICCS (Philippines)	:	Yes	
IECSC (China)	:	Yes	

All ingredients are registered under the industrial Chemicals (Notification and Assessment ) Act 1989 , or under the polymer exemption.

All ingredients are exempt, registered or considered polymer under The Australian Inventory of Chemical Substances (AICS) with Directive NIC504735 : not classified.

Please refer to any other national measures that may be relevant.

### 16. Other information

#### [SDS STATUS]

##### Documents list

- \*1 In-house data
- \*2 ·EC-directives 67/548/EEC and 99/45/EC
- IARC Monographs volumes 1-103
- EPA, Proposed Guidelines for Carcinogen Risk Assessment (1986)

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of our company. It relates only to the specific material designated herein, and does not relate to use in combination with any other material or in any process. Our company assumes no legal responsibility for use of or reliance upon this information.

**SAFETY DATA SHEET**

**1. Identification of the substance/preparation and of the company/undertaking**

Product name : Cyan Toner powder (cartridge) for  
C941 / C931 / C911 series  
( Toner powder name : OKT5C )

Manufacturer : Oki Data Corporation  
3-1, Futaba-cho, Takasaki-shi, GUNMA, 370-8585 JAPAN  
Tel. +81-27-328-6366. Fax +81-27-328-6396

Supplier Australia : Oki Data Australia Pty Ltd  
Level 1, 67 Epping Road , Macquarie Park NSW 2113, Australia  
Tel: 02 8071 0000  
Emergency telephone number: 1800 800 140  
Emergency email contact: aus-MSDSQuestions@oki.com

New Zealand : Comworth Systems Ltd.  
8 Antares Place, Rosedale, Auckland, NewZealand  
Tel: 0800 778800  
email: helpdesk@comworth.co.nz

**2. Hazards 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	:	Classification not possible
Self-reactive substances and mixtures	:	Classification not possible
Pyrophoric liquids	:	Not applicable
Pyrophoric solids	:	Classification not possible
Self-heating substances and mixtures	:	Classification not possible
Substances and mixtures, which in contact with water, emit flammable gases	:	Classification not possible
Oxidizing liquids	:	Not applicable
Oxidizing solids	:	Classification not possible
Organic peroxides	:	Classification not possible
Corrosive to metals	:	Classification not possible

**Health Hazards**

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Classification not possible
Acute toxicity (inhalation: dust, mist)	:	Classification not possible
Skin corrosion / irritation	:	Not classified
Serious eye damage / eye irritation	:	Classification not possible
Respiratory sensitizer	:	Classification not possible
Skin sensitizer	:	Not classified
Germ cell mutagenicity	:	Classification not possible
Carcinogenicity	:	Classification not possible
Toxic to reproduction	:	Classification not possible
Specific target organs/systemic toxicity following single exposure	:	Classification not possible
Specific target organs/systemic toxicity following repeated exposure	:	Classification not possible
Aspiration hazard	:	Classification not possible

**Environmental Hazards**

Hazardous to the aquatic environment (acute)	:	Classification not possible
Hazardous to the aquatic environment (chronic)	:	Classification not possible

In accordance with GHS classification criteria, this product is not classified as hazardous mixture.

## SAFETY DATA SHEET

**Indication of danger:**

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 99/45/EC and their various amendments and adaptations.

**[Potential Health Effects]**

**Ingestion Effects** : Ingestion is not applicable route of entry for intended use.  
**Inhalation Effects** : Minimal respiratory tract irritation may occur with exposure to large amount of toner dust.  
**Eye Effects** : Solid or dusts may cause irritation or scratch the surface of eye.  
**Skin Effects** : Unlikely to cause skin irritation.

**[Environmental Hazards]**

No particular hazards known.

### 3. Composition/information on ingredients

**[Composition / Information]** : Mixture

**Ingredient(s):**

Chemical Name/ Generic Name	CAS No.	Proportion (%)	OSHA PEL	ACGIH TLV	Other Limits
Styrene acrylate copolymer	Proprietary	80-90	Not applicable	Not applicable	Not available
Wax	Proprietary	5-15	Not applicable	Not applicable	Not available
Blue pigment	Proprietary	3-10	Not listed	Not listed	Not available
Silica	7631-86-9	1-3	20mppcf(*), 80(mg/m3)/%SiO2	Not listed	Not available
Titanium dioxide	13463-67-7	0.1-0.9	15 mg/m3	10 mg/m3	Not available

(\* ) million particles/cubic foot

**[Further Information]** : No known.

### 4. First-aid measures

**Ingestion** : Dilute stomach contents with several glasses of water.  
Get medical attention if symptoms persist.  
**Inhalation** : Move person to fresh air immediately. If symptoms occur, consult a physician.  
**Eye Contact** : Immediately flush with large amount of clean water for at least 15 minutes.  
If irritation persists, consult a physician.  
**Skin Contact** : Wash affected areas thoroughly with soap and water. If irritation persists, consult a physician.

### 5. Fire-fighting measures

**Extinguishing Media** : Water, foam, dry chemical  
**Special Fire-fighting Procedure** : Keep personnel removed from and upwind of fire. Wear respiratory protection.  
Cool container with water spray.  
**Unusual Fire & Explosion Hazards** : Toner material, like most organic material in powder form, is capable of creating a dust explosion.

### 6. Accidental release measures

**Spill and Leakage Procedure** : Wear personal protective equipment as described in Section 8. Avoid breathing dust.  
Minimize the release of particles. Vacuum or sweep the material into a bag or other sealed container. Dispose of waste toner in accordance with local requirements.  
**Environmental precautions** : Do not discharge into drains.

### 7. Handling and storage

**Advise on safe handling and protection against fire** : Keep material out of reach of children. Avoid inhalation of dust and contact with eyes. Keep away from excessive heat, sparks, and open flames.  
**Requirements for storage rooms and advice on compatibility** : Keep out of the reach of children. Keep container closed and store at room temperature. Keep away from strong oxidizers.

## SAFETY DATA SHEET

### 8. Exposure controls/personal protection

#### Occupational Exposure Limits

ACGIH TLV	:	Particulates (Insoluble) Not Otherwise Specified 10mg/m3 (Inhalable Particulate) 3mg/m3 (Respirable Particulate)
OSHA PEL	:	Inert or Nuisance Dust 15mg/m3 (Total dust) 5mg/m3 (Respirable fraction)
Respiratory	:	Dust respiratory mask
Ventilation	:	Good general ventilation should be sufficient under intended use.
Protective Gloves	:	Use leather gloves for hand protection.
Eye Protection	:	Protecting glasses
Other Protective Equipment	:	Not required under intended use.

### 9. Physical and chemical properties

Appearance and odor	:	Fine powder, blue, slight plastic odor.
Density	:	About 1.2g/ cm3
Boiling Point	:	Not applicable
Melting Point	:	Not applicable.
Solubility in Water	:	Negligible
Solubility in Other	:	Partially soluble in toluene and THF
Percent Volatile by	:	Not applicable
Flammable Limits	:	Not applicable
Flash Point	:	Not applicable
Log Po/w	:	Not applicable
Explosibility	:	No data available.
Flammability	:	No data available.

### 10. Stability and reactivity

Stability & Reactivity	:	Stable. Hazardous polymerization will not occur.
Materials to Avoid	:	None
Hazardous	:	Combustion will produce carbon dioxide and, possibly toxic chemicals
Decomposition products	:	such as carbon monoxide.

### 11. Toxicological information

Acute toxicity (oral)	:	Test result of similar product shows LD50 >5000mg/kg. *1
Acute toxicity (dermal)	:	No test data available.
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Respiratory sensitizer	:	No test data available.
Skin sensitizer	:	Based on the result of the skin sensitization study in mouse, the skin sensitizing potential of this product was considered negative. *1
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Aquatic Environment : No data available.

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Recommendation: consult with the disposal agency and the relevant authorities; cleansing agent is water.

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#### [International Transport Information]

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ECL (Korea)	:	Yes	
PICCS (Philippines)	:	Yes	
IECSC (China)	:	Yes	

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