

# Safety Data Sheet (ISO form)

Date Prepared 23/08/2005

## 1.Product and Company Identification

Product Name TONER CARTRIDGE TYPE1275 BLACK

Company Name : Ricoh Company, Ltd.  
Department :  
Address :  
Telephone Number :  
Emergency Telephone Number :  
Telefax Number :

## 2.Composition/Information on Ingredients

Substance or Preparation

Preparation

Chemical Nature

Ingredients	CAS.No.	Contents(%)
Polyester Resin	Confidential	80-95
Carbon Black	1333-86-4	<5
Organic Pigment	Confidential	<1
Silica	Confidential	<2

## 3.Hazards Identification (Most Important Hazard)

Adverse Human Health Effects

Not applicable in normal use.

Carcinogenicity

Carbon Black was reclassified as a Group 2B by IARC in 1996 based on the result of only the inhalation study in rats. However there was not observed the incidence of tumors on the test results on dermal or oral studies. Also 2-years inhalation study using a typical toner containing carbon black showed no association between toner exposure and animal tumors.

Environmental Effects

Not applicable in normal use.

Physical and Chemical Hazards

Not applicable in normal use.

The Classification of The Chemical Product

Not applicable

## 4.First-Aid Measures

### Inhalation

[Gargle with water, move to place in fresh air. If unsuccessful,get medical attention.](#)

### Skin Contact

[Wash thoroughly with soap and water.](#)

### Eye Contact

[Immediately wash eyes with plenty of water .If unsuccessful, get medical attention.](#)

### Ingestion

[Dilute stomach contents with several glasses of water .If unsuccessful,get medical attention.](#)

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## 5.Fire-Fighting Measures

### Extinguishing Media

[CO2,dry chemicals,foam or water.](#)

### Specific Method

[Generally by sprinkling or extinguisher .](#)

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## 6.Accidental Release Measures

### Personal Precautions

[Minimize inhalation of dust.](#)

### Environment Precautions

[Keep product out of sewers and watercourses.](#)

### Methods for Cleaning Up

[If spilled, sweep up or pick up by vacuum cleaner\(rated for toner extraction\)](#)

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## 7.Handling and Storage

### Handling(technical measures,precautions,safe handling material)

[Do not handle in areas where wind blows.](#)

[Flying powder may enter eyes.](#)

[Minimize breathing dust.](#)

### Storage(technical measures,storage conditions,packaging material)

[Avoid direct sunlight.](#)

[Do not keep this over 35 degrees centigrade.](#)

[Keep out of reach of children.](#)

## 8. Exposure Controls/Personal Protection

### Respiratory Protections

[None required under normal conditions of use.](#)

### Hand Protection

[None required under normal conditions of use.](#)

### Eye Protection

[None required under normal conditions of use.](#)

### Skin and Body Protection

[None required under normal conditions of use.](#)

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## 9. Physical and Chemical Properties

### Appearance

Form : [Powder](#)

Color : [Black](#)

Odour : [Slightly plastic oder](#)

### Information

pH : [not applicable](#) Measuring Temp.(degrees centigrade) :

Boiling Point(degrees centigrade) : [not available](#)

Flash Point(degrees centigrade) : [not available](#)

Explosion Properties(degrees centigrade) : [This product is considered a nonexplosive material under normal use condition.](#)

Vapor Pressure(Pa) : [not applicable](#) Measuring Temp.(degrees centigrade):

Vapor Density(AIR=1) : [not applicable](#)

Density (g/cm<sup>3</sup>) : [1.2](#) Measuring Temp.(degrees centigrade): [20.0](#)

### Solubility

Water Solubility(g/L) : [Insoluble](#)

Water Solubility Measuring Temp.(degrees centigrade) :

Other Solvent name : [toluene, chloroform, tetrahydrofran](#)

Other Solvent Solubility(g/L) : [slightly soluble](#)

Other Solvent Solubility Measuring Temp.(degrees centigrade) :

### Octanol/Water Partition Coefficient

[not known](#)

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## 10. Stability and Reactivity

### Conditions to Avoid

[Not applicable in normal use.](#)

### Materials to Avoid

[Not applicable in normal use.](#)

### Hazardous Decomposition Products

[Decomposition product will not occur](#)



## 11.Toxicological Information

### Acute Toxicity

Acute Oral Toxicity (LD50)

: [\(Rat\)](#)

Acute Dermal Toxicity

: [not available](#)

Acute Inhalation Toxicity

: [not available](#)

### Sensitization

#### Local effects

Acute Skin Irritation(PII) : [not available](#)

Acute Eye Irritation : [not available](#)

#### Sensitization

Acute Allergenic Effects : [non-skinsensitive](#)

### Specific Effects

#### Carcinogenicity :

[In 1996 IARC reevaluated Carbon Black as a Group 2B carcinogen \(possible human carcinogen\). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, 2-years cancer bioassay using a typical toner preparation containing carbon black did not demonstrate an association between toner exposure and tumor development in rats.](#)

Mutagenicity : [negative\(Ames test\)](#)

Effects on The Reproductive System : [Not contained in This Product](#)

Teratogenic : [not available](#)

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## 12.Ecological Information

Persistence/Degradability : [not known](#)

### Bioaccumulation

[Not known in bioaccumulation.](#)

### Ecotoxicity

Acute Toxicity for Fish (LD50) : [not available](#) (mg/kg/96hr)

Acute Toxicity for Daphnia (EC50) : [not available](#) (mg/kg/48hr)

Algae Inhibition Test (IC50) : [not available](#) (mg/kg/72hr)

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## 13.Disposal Consideration

### Recommended Methods for Safe Environmentally Preferred Disposal

(waste from residues/contaminated packaging)

[Used toner should be disposed of in an environmentally appropriate manner and in accordance with governmental regulations. Do not incinerate.](#)



## 14.Transport Information

### International Regulations

#### Land Transport

RID/ADR : [not applicable](#)  
DOT 49 CFR : [not applicable](#)  
ADNR : [not applicable](#)

#### Sea Transport

IMDG Code : [not applicable](#)

#### Air Transport

ICAO-TI/IATA-DGR : [not applicable](#)  
The UN Classification Number: [not applicable](#)

### Specific Precautionary Transport Measures

[Avoid direct sunlight.Do not keep this over 35 degrees centigrade.](#)

### Specific Materials to Avoid

[None in normal use.](#)

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## 15.Regulation Information

### Regulations

[Not known](#)

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## 16.Other Information

### References:

IARC(1996) "IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans , Vol.65, Printing Process and Printing Inks, Carbon Black and Some Nitro Compounds", Lyon, pp149-261

H.Muhle, B.Bellman, O.Creutzenberg, C.Dasenbrock, H.Emst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka and R.Mermelstein(1991) "Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats" Fundamental and Applied Toxicology 17,pp280-299

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