

Product Name : [Print Cartridge Magenta MP C1500E](#) MSDS Number : [888549](#)  
 Date Prepared : [8/9/2006](#) Date Modified : [26/11/2010](#) Date : [29/10/2012](#)



## Safety Data Sheet (ISO form)

### 1.Product and Company Identification

Product Name : [Print Cartridge Magenta MP C1500E](#)  
 General Use : [The Image Formation of Printing Machine](#)  
 MSDS Number : [888549](#)  
 Company Name : [Ricoh Company,Ltd.](#)  
 Department : [Environment Safety Center, Corporate Environment Division](#)  
 Address : [146-1 Nishisawada, Numazu-shi, Shizuoka-ken, 410-0007 Japan](#)  
 Telephone Number : [055-920-1470, Japan](#)  
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### 2.Composition/Information on Ingredients

Substance or Preparation

[Preparation](#)

Chemical Nature

Ingredients	Chemical Formula	CAS.No.	Contents(%)
<a href="#">Organic Pigment</a>	<a href="#">Confidential</a>	<a href="#">Confidential</a>	<a href="#">&lt;10</a>
<a href="#">Glycol</a>	<a href="#">Confidential</a>	<a href="#">Confidential</a>	<a href="#">20-30</a>
<a href="#">Glycerin</a>	<a href="#">C3H8O3</a>	<a href="#">56-81-5</a>	<a href="#">&lt;10</a>
<a href="#">Water</a>	<a href="#">H2O</a>	<a href="#">7732-18-5</a>	<a href="#">45-75</a>

This product does not contain any of the following substances as ingredients.

[Cadmium, Hexavalent Chromium, Mercury, Lead, Polybrominated biphenyls \(PBB\), Polybrominated diphenyleters \(PBDE\), SVHC \(substances of very high concern: published by ECHA\).](#)

[And if it contains any impurities, it does not exceed any of the thresholds of RoHS.](#)

### 3.Hazards Identification

The Most Important Hazards

Adverse Human Health Effects

[There are no significant hazards expected with intended use.](#)

Environmental Effects

[There are no significant hazards expected with intended use.](#)

Physical and Chemical Hazards

[There are no significant hazards expected with intended use.](#)

Specific Hazards

[There are no significant hazards expected with intended use.](#)

Main Symptoms

Acute Inhalation Toxicity

[Under normal use conditions, there is no possibility to inhale the particle of ink.](#)

Acute Oral Toxicity

[Low acute toxicity in animal experiment.](#)

Acute Eye Irritation

[May be non-irritant.](#)

Acute Skin Irritation

[May be non-irritant.](#)

**Sensitization**

From test no apparent significant hazards are expected.

**Chronic Effect**

Under normal use conditions, there is no possibility to inhale the particle of ink.

**Carcinogenicity**

This product does not contain the substances classified as carcinogenic by NTP, IARC or OSHA.

**The Classification of The Chemical Product**

This preparation is not classified as dangerous according to Directive 1999/45/EC

## 4.First-Aid Measures

**Inhalation**

Remove from exposure into fresh air if symptoms are experienced. Seek medical advice.

**Skin Contact**

Wash thoroughly with soapy water.

**Eye Contact**

Flush with a large amount of water until particles are removed. Seek medical advice.

**Ingestion**

Make him drink strong salt water, let him vomit. Seek medical advice.

**Notes to a physician**

Not applicable

## 5.Fire-Fighting Measures

**Extinguishing Media**

CO2, dry chemicals, foam or water.

**Extinguishing Media to Avoid**

Not applicable.

**Specific Hazards**

Not applicable

**Specific Method**

No special fire protecting method is required. Sprinkling or fire extinguishers can be used.

**Protection of Fire-fighters**

Wear gloves, glasses, a mask if necessary.

## 6.Accidental Release Measures

**Personal Precautions**

Take off dirty clothes and wash them or have them dry-cleaned before wearing again.

#### Environment Precautions

Do not exposure to sewers and watercourses.

#### Methods for Cleaning Up

If spilled, wipe up with paper or cloth.

## 7.Handling and Storage

#### Handling

##### Technical Measures/Precautions

Not applicable

##### Safe Handling Advice

Keep away from heat, flame or spark. Do not dismantle cartridge.

#### Storage

##### Technical Measures

Not applicable

##### Storage Conditions

Keep out of reach of children.

For the sake of quality<sup>①</sup>store in dry and well-ventilated area it should not exceed 35 degrees centigrade for a long time and avoid direct sunlight.

##### Packaging Material

Not applicable

##### Specific Use(s)

The Image Formation of Printing Machine or Copier.

## 8.Exposure Controls/Personal Protection

#### Technical Measures

Use adequate ventilation. None required with intended use.

#### Control Parameters

USA OSHA PEL (TWA) : Not applicable

ACGIH TLV (TWA) : Not applicable

DFG MAK : Not applicable

#### Personal Protection

##### Respiratory Protections

None required in normal use.

##### Hand Protection

Use vinyl or rubber gloves if necessary.

##### Eye Protection

Put on goggles if necessary.

##### Skin and Body Protection

Wear chemical-resistant apron or other impervious clothing if necessary.

##### Hygiene Measures

Wash hands after handling.

## 9.Physical and Chemical Properties

**Appearance**

Physical State : [Liquid](#)  
Form : [Liquid](#)  
Colour : [magenta](#)  
Odour : [No odour](#)

**Information**

pH : [8-10](#)                      Measuring Temp (degrees centigrade) : [25](#)

**Specific Temperatures/Temperature Ranges at Which Changes in Physical State Occur**

Boiling Point (degrees centigrade) : [Not available](#)  
Melting Point (degrees centigrade) : [Not applicable](#)

Decomposition Temperature (degrees centigrade) : [Not applicable](#)  
Flash Point (degrees centigrade) : [Not applicable](#)  
Explosion Properties (degrees centigrade) : [This product is considered a nonexplosive material under normal use.](#)

Vapor Pressure (Pa) : [Not available](#)      Measuring Temp (degrees centigrade) : -  
Vapor : [Not available](#)  
Density(AIR=1)  
Density (g/cm3) : [Approx.1.1](#)      Measuring Temp (degrees centigrade) : [23](#)

**Solubility**

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

Octanol/Water Partition Coefficient  
[Not available](#)

Other Information

Flammability : [Not flammable](#)  
Viscosity (Pa<sup>sec</sup>) : [Approx.0.008](#)      Measuring Temp (degrees centigrade) : [25](#)  
Volatile (%) : [45-75](#)

## 10.Stability and Reactivity

**Stability**

[Stable](#)

**Hazardous Reaction**

[There is no significant hazardous reaction expected with intended use.](#)

**Conditions to Avoid**

[Not applicable in normal use.](#)

**Materials to Avoid**

[Not applicable in normal use.](#)

**Hazardous Decomposition Products**

[Decomposition products will not occur.](#)

## 11.Toxicological Information

**Acute Toxicity**

Acute Oral Toxicity (LD50) :

5000 or over [mg/kg] (Rat)

Acute Dermal Toxicity :

Not available

Acute Inhalation Toxicity :

Not available

Local effects

Acute Skin Irritation(PII) :

1.0 or below (Rabbit)

Acute Eye Irritation :

Not available (Ingredients are not classified as dangerous according to Directive 67/548/EEC.)

Sensitization

Acute Allergenic Effects :

0 % (Marmot)

Specific Effects

Carcinogenicity :

This product does not contain the carcinogenic substances which are listed on NTP, IARC and OSHA.

Mutagenicity : Negative (Ames test)

Reproduction Toxicity : Does not contain substances listed as hazardous to reproductive health.

## 12. Ecological Information

Mobility : No data are available on the adverse effect one environment.

Persistence/Degradability : Not available

Bioaccumulation : Not available

Ecotoxicity

Acute Toxicity for Fish (LC50) : Not available

Acute Toxicity for Daphnia (EC50) : Not available

Algae Inhibition Test (IC50) : Not available

## 13. Disposal Consideration

General information:

Dispose of waste and residues in accordance with local authority requirements.

Disposal methods:

Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Confirm disposal procedures with local regulations.

Precautions:

Not applicable

## 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

Class : Not applicable

Specific Precautionary Transport Measures and conditions

Avoid direct sunlight in quality.

## 15.Regulatory Information

### Regulations

#### EU Information

Information on the label (1999/45/EC and 67/548/EEC)

Symbols & : [Not required](#)

Indications

R-Phrase : [Not required](#)

S-Phrase : [Not required](#)

Special Precautions under 1999/45/EC Annex V : [Not required](#)

76/769/EEC

[This product complies with applicable rules and regulations under 76/769/EEC](#)

304/2003/EC

[Not regulated](#)

#### US Information

Information on the label : [Not required](#)

TSCA (Toxic Substances Control Act) :

[This product complies with all applicable rules and regulations under TSCA.](#)

SARA Title III

313 Reportable Ingredients : [Not regulated](#)

California<sup>65</sup> Proposition<sup>65</sup> : [Not regulated](#)

Canada Information

WHMIS Controlled product : [Not a controlled product](#)

## 16.Other Information

NFPA Hazard Rating: National Fire Protection Agency (USA)

Health ; [1](#), Flammability ; [1](#), Reactivity ; [0](#)

HMIS Rating : The National Paint and Coating Association (USA)

Health ; [1](#), Flammability ; [1](#), Reactivity ; [0](#)

### Literature References :

ANSI Z400.1-1993

ISO 11014-1

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, pp 280-299

IARC (2008) "IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.93" NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for<sup>100</sup> Occupational Exposure to Titanium Dioxide DRAFT"

ACGIH-TLV : Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices

OSHA<sup>1910</sup>Z-Tables : US Department of Labor, 29CFR Part 1910 , Tables Z-1, Z-2, and Z-3

NTP (USA) : US Department of Health and Human Services National Toxicology Program Annual Report on Carcinogens

DFG-MAK : DFG List of MAK and BAT Value

Symbol (EC) : EU Directive 67/548/EEC

91/155/ EEC : EU Directive 91/155/ EEC

1999/45/EC Annex V	: EU Directive 1999/45/EC
76/769/ EEC	: EU Directive 76/769/ EEC
EC 304/2003	: Regulation (EC) No 304/2003 of the European Parliament and of the Council of 28 January 2003 concerning the export and import of dangerous chemicals
WHMIS Controlled product	: Canada Workplace Hazardous Information System
OELs-TWA (Australia)	: Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC: 3008 (1995)]

**Abbreviations :**

OSHA PEL	PEL (Permissible Exposure Limit) under Occupational Safety and Health Act
ACGIH-TLV	TLV (Threshold Limit Values) under American Conference of Governmental Industrial Hygienists
REACH	(EC)No.1907/2006:Council Regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals
SVHC	Substances of Very High Concern
ECHA	The European Chemicals Agency
DFG-MAK	MAK (Maximale Arbeitsplatz Konzentrationen) by Deutsche Forschungs Gemeinschaft
RoHS	Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment
TWA	Time Weighted Average
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
WHMIS	Workplace Hazardous Information System
NOHSC	National Occupational Health and Safety Commission Act 1985

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