

Product Name : RICOH Cleaning Cartridge Magenta Type G1    SDS Number : 342524

Date Prepared : 24/08/2018    Date Modified : 24/08/2018    Date : 05/06/2019



## Safety Data Sheet (ISO form)

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### 1. Product and Company Identification

Product Name : RICOH Cleaning Cartridge Magenta Type G1  
General Use : The Image Formation of Printing Machine  
SDS Number : 342524  
Company Name : Ricoh Company, Ltd.  
Department : Product Safety Engineering Department, Safety and Environmental  
Engineering Center, Quality Management 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 (%)
Glycol	Confidential	Confidential	20-30
Glycerin	C3H8O3	56-81-5	<10
Surfactant	Confidential	Confidential	<3
Water	H2O	7732-18-5	55-75

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

Cadmium, Hexavalent Chromium, Mercury, Lead, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE).

And if it contains any impurities, it does not exceed any of the thresholds of RoHS.

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### 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.

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**RICOH**

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#### 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

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#### 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

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### 5. Fire-Fighting Measures

#### Extinguishing Media

CO<sub>2</sub>, 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.

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### 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.

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## 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, store in dry and well-ventilated area it should not exceed 32 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.

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## 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.

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## 9. Physical and Chemical Properties

### Appearance

Physical State [Liquid](#)

:

Form [Liquid](#)

:

Colour [Colorless](#)

:

Odour [No odour](#)

:

### Information

pH : [9-10.5](#)      Measuring Temp (degrees centigrade) : [25](#)

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

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

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

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.

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Vapor Pressure

(Pa) :

Vapor                      Not available

Density(AIR=1)        :

Density (g/cm<sup>3</sup>)        Approx. 1.05    Measuring Temp (degrees centigrade) : 23

:

Solubility

Water Solubility (g/L)    Soluble

:

Octanol/Water Partition Coefficient

Not available

Other Information

Flammability            Not flammable

:

Viscosity (Pa·s)        Approx. 0.003        Measuring Temp (degrees centigrade) :25

:

Volatile (%)            60-80

:

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## 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.

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## 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) :

1.5 or below (Rabbit) (Slight irritation)

Acute Eye Irritation :

Not available (Ingredients are not classified as dangerous according to Regulation (EC) No 1272/2008.)

Sensitization

Acute Allergenic Effects :

0 % (Mouse) (None skin sensitization.)

Specific Effects

Carcinogenicity :

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

Mutagenicity Negative (Ames test)

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

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## 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

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## 13. Disposal Consideration

### General information:

Used product should be disposed in an environmentally appropriate manner and accordance with governmental regulations.

### Disposal methods:

### Precautions:

Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Confirm disposal procedures with local regulations.

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## 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 : Not applicable

#### Number

Class : Not applicable

### Specific Precautionary Transport Measures and conditions

Avoid direct sunlight in quality.; Do not keep this over 32 degrees centigrade.

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## 15. Regulatory Information

### Regulations

#### EU Information

Information on the label (Regulation (EC) No 1272/2008)

Symbols & : Not required

#### Indications

R-Phrase : Not required

S-Phrase : Not required

(EC) No 1907/2006 Annex XVII

This product complies with applicable rules and regulations under (EC) No 1907/2006  
Annex XVII

(EC) No. 689/2008

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 Proposition 65 : Not regulated

#### Canada Information

WHMIS Controlled product : Not a controlled product

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## 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 Occupational Exposure to Titanium Dioxide DRAFT"

ACGIH-TLV	: Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
OSHA 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)	: Regulation (EC) No 1272/2008
91/155/ EEC	: EU Directive 91/155/ EEC
(EC) No 1907/2006	: Regulation (EC) No 1907/2006 Annex XVII
Annex XVII	
(EC) No. 689/2008	: Regulation (EC) No 689/2008
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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