

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name or designation of the mixture      Print Cartridge Magenta M C2000H

Registration number      -

Synonyms      None.

SDS No.      842452

Issue date      13-May-2021

Version number      01

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses      Image formation in printing machines or copiers dry toner

Uses advised against      None known.

### 1.3. Details of the supplier of the safety data sheet

Importer and Distributor      Ricoh UK Ltd

Address      800 Pavilion Drive, Northampton Business Park Northampton NN4 7YL, UK

Phone      +44 330 123 3011

E-mail      contactcr@ricoh.co.uk

Manufacturer      Ricoh Co., Ltd.

Address      Chome 3-6 Nakamagome, Ôta, Tokyo, 143-8555, Japan

E-mail      zjc\_sdsinfo@jp.ricoh.com

1.4. Emergency telephone number      111 (UK only)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

Hazard summary      Not available.

### 2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms      None.

Signal word      None.

Hazard statements      The mixture does not meet the criteria for classification.

### Precautionary statements

Prevention      Not available.

Response      Not available.

Storage      Not available.

Disposal      Not available.

Supplemental label information      None.

2.3. Other hazards      None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Polyester resin	60 - 90	Confidential	Confidential	-	

Classification: -

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Organic pigment	1 - 20	Confidential	Confidential	-	
<b>Classification: -</b>					
Wax	1 - 20	Confidential	Confidential	-	
<b>Classification: -</b>					
Silica	<10	7631-86-9 231-545-4	01-2119379499-16-xxxx	-	
<b>Classification: -</b>					
Titanium dioxide	<1	13463-67-7 236-675-5	01-2119489379-17-xxxx	022-006-002	
<b>Classification: Carc. 2;H351</b>					1,V,W

**Composition comments** This product does not contain any of the following RoHS2 substances as ingredients. Cadmium, Hexavalent Chromium, Mercury, Lead, Polybrominated biphenyls (PBB), Polybrominated diphenylethers (PBDE), Phthalate esters (DEHP, BBP, DBP, and DIBP), SVHC (substances of very high concern: published by ECHA).

## SECTION 4: First aid measures

**General information** Not available.

### 4.1. Description of first aid measures

**Inhalation** Move to fresh air. Get medical attention, if needed.  
**Skin contact** Wash off with soap and plenty of water.  
**Eye contact** Rinse with plenty of water. If eye irritation persists: Get medical advice/attention.  
**Ingestion** Rinse mouth thoroughly. Get medical advice/attention if you feel unwell.

**4.2. Most important symptoms and effects, both acute and delayed** Not available.

**4.3. Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

## SECTION 5: Firefighting measures

**General fire hazards** Not available.

### 5.1. Extinguishing media

**Suitable extinguishing media** Water. Foam. Dry chemicals. Carbon dioxide (CO<sub>2</sub>).  
**Unsuitable extinguishing media** Not available.

**5.2. Special hazards arising from the substance or mixture** Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Wear suitable protective equipment.  
**Special fire fighting procedures** Not available.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Not available.  
**For emergency responders** Not available.

**6.2. Environmental precautions** Do not discharge into drains, water courses or onto the ground. Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up** Remove from the surface by skimming or with suitable absorbents. Collect dust using a vacuum cleaner equipped with HEPA filter.

**6.4. Reference to other sections** Not available.

## SECTION 7: Handling and storage

7.1. Precautions for safe handling	No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.
7.2. Conditions for safe storage, including any incompatibilities	Not available.
7.3. Specific end use(s)	Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Silica (CAS 7631-86-9)	TWA	6 mg/m <sup>3</sup>	Inhalable dust.
		2.4 mg/m <sup>3</sup>	Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	4 mg/m <sup>3</sup>	Respirable.
		10 mg/m <sup>3</sup>	Inhalable

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Not available.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

### 8.2. Exposure controls

**Appropriate engineering controls** Not available.

#### Individual protection measures, such as personal protective equipment

**General information** No special protective equipment required.

**Eye/face protection** Not normally needed.

##### Skin protection

- Hand protection Not normally needed.

- Other Not normally needed.

**Respiratory protection** No personal respiratory protective equipment normally required.

**Thermal hazards** Not available.

**Hygiene measures** Not available.

**Environmental exposure controls** Not available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Solid.
Form	Powder.
Colour	Magenta
Odour	Slightly plastic odour
Odour threshold	Not available
Melting point/freezing point	(Softening point) Approx.90 / 1710 °C (3110 °F) estimated
Boiling point or initial boiling point and boiling range	Not applicable
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Flash point	Not applicable

Auto-ignition temperature	Not available.
Decomposition temperature	Not available
pH	Not applicable
<b>Solubility(ies)</b>	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	Approx.1.2
Particle characteristics	Not available.
<b>Other safety characteristics</b>	Dust explosion (like most finely grained organic powders)
Density	Approx.1.2
Evaporation rate	Not applicable
Flammability	Not flammable
Specific gravity	4.23 estimated
Viscosity	Not applicable

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	Dust explosive, but under the intended conditions of use, the probability of dust explosion is very low.
<b>10.4. Conditions to avoid</b>	None under normal conditions.
<b>10.5. Incompatible materials</b>	Not available.
<b>10.6. Hazardous decomposition products</b>	At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

## SECTION 11: Toxicological information

**General information** Not available.

### Information on likely routes of exposure

<b>Inhalation</b>	Not available.
<b>Skin contact</b>	Not available.
<b>Eye contact</b>	Not available.
<b>Ingestion</b>	Not available.

**Symptoms** Not available.

### 11.1. Information on toxicological effects

#### Acute toxicity

Product	Species	Test Results
Print Cartridge Magenta M C2000H		
<u>Acute</u>		
<b>Oral</b>		
LD50	Rat	>= 5000 mg/kg

#### Skin corrosion/irritation

##### Irritation Corrosion - Skin: P.I.I. value

Print Cartridge Magenta M C2000H

<= 1

Species: Rabbit

Notes: Based on other Ricoh products test results of similar ingredients.

#### Serious eye damage/eye irritation

##### Irritation Corrosion - Eye

Print Cartridge Magenta M C2000H

Result: Non-irritant

**Respiratory sensitisation** Not available.

#### Skin sensitisation

**Skin Sensitisation**  
Print Cartridge Magenta M C2000H

Result: Non-skinsensitive  
Species: Mouse  
Notes: Based on other Ricoh products test results of similar ingredients.

#### **Germ cell mutagenicity**

**Germ cell mutagenicity: Ames test**  
Print Cartridge Magenta M C2000H

Result: Negative  
Notes: Ames test

#### **Carcinogenicity**

Titanium dioxide contained in this product is classified to Group 2B of IARC as the result of inhalation test in use of rat.  
But oral/skin test does not show carcinogenicity.  
In the animal experiment with very high concentration of titanium dioxide (excessive burden of rat's lungs clearance mechanism (overload phenomenon)), the rat alone showed lung tumor.  
Under a normal use practice, the concentration should be far lower than the above; and it is assumed that there is no such use.  
Also, relation between respiratory disease and work exposure of titanium dioxide is not observed with epidemiological survey.

#### **Reproductive toxicity**

Not available.

#### **Specific target organ toxicity - single exposure**

Not available.

#### **Specific target organ toxicity - repeated exposure**

Not available.

#### **Aspiration hazard**

Not available.

#### **Mixture versus substance information**

Not available.

#### **11.2. Information on other hazards**

##### **Endocrine disrupting properties**

Not available.

##### **Other information**

Not available.

### **SECTION 12: Ecological information**

#### **12.1. Toxicity**

This material is not expected to be harmful to aquatic life.

#### **12.2. Persistence and degradability**

Not available.

#### **12.3. Bioaccumulative potential**

Not available.

#### **Partition coefficient n-octanol/water (log Kow)**

Not available.

#### **Bioconcentration factor (BCF)**

Not available.

#### **12.4. Mobility in soil**

Not available.

#### **12.5. Results of PBT and vPvB assessment**

Not a PBT or vPvB substance or mixture.

#### **12.6. Endocrine disrupting properties**

Not available.

#### **12.7. Other adverse effects**

Not available.

### **SECTION 13: Disposal considerations**

#### **13.1. Waste treatment methods**

##### **Residual waste**

Not available.

##### **Contaminated packaging**

Not available.

##### **EU waste code**

Not available.

##### **Disposal methods/information**

Contract with a disposal operator licensed by the Law on Disposal and Cleaning.

##### **Special precautions**

Dispose in accordance with all applicable regulations. Do not throw in contents or fire containing contents.

The contents will splash and cause burns.

### **SECTION 14: Transport information**

#### **ADR**

##### **14.1. UN number**

Not available.

##### **14.2. UN proper shipping name**

Not available.

#### 14.3. Transport hazard class(es)

Class Not available.  
Subsidiary risk -  
Hazard No. (ADR) Not available.  
Tunnel restriction code Not available.

14.4. Packing group Not available.

14.5. Environmental hazards No.

14.6. Special precautions Not available.  
for user

#### RID

14.1. UN number Not available.

14.2. UN proper shipping Not available.  
name

#### 14.3. Transport hazard class(es)

Class Not available.  
Subsidiary risk -

14.4. Packing group Not available.

14.5. Environmental hazards No.

14.6. Special precautions Not available.  
for user

#### ADN

14.1. UN number Not available.

14.2. UN proper shipping Not available.  
name

#### 14.3. Transport hazard class(es)

Class Not available.  
Subsidiary risk -

14.4. Packing group Not available.

14.5. Environmental hazards No.

14.6. Special precautions Not available.  
for user

#### IATA

14.1. UN number Not available.

14.2. UN proper shipping Not available.  
name

#### 14.3. Transport hazard class(es)

Class Not available.  
Subsidiary risk -

14.4. Packing group Not available.

14.5. Environmental hazards No.

14.6. Special precautions Not available.  
for user

#### IMDG

14.1. UN number Not available.

14.2. UN proper shipping Not available.  
name

#### 14.3. Transport hazard class(es)

Class Not available.  
Subsidiary risk -

14.4. Packing group Not available.

14.5. Environmental hazards

Marine pollutant No.

EmS Not available.

14.6. Special precautions Not available.  
for user

14.7. Maritime transport in bulk Not available.  
according to IMO instruments

## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Titanium dioxide (CAS 13463-67-7)

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### **Authorisations**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

#### **Restrictions on use**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

#### **Other EU regulations**

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Not listed.

**National regulations** Not available.

**15.2. Chemical safety assessment** Not available.

### **SECTION 16: Other information**

**List of abbreviations** Not available.

**References** ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices  
HSDB® - Hazardous Substances Data Bank  
National Toxicology Program (NTP) Report on Carcinogens  
US. IARC Monographs on Occupational Exposures to Chemical Agents  
JIS Z 7253:2012 Hazard communication of chemicals based on GHS – Labelling and Safety Data Sheet (SDS)  
Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits  
JIS Z 7252:2014 Classification of chemicals based on “Globally Harmonized System of Classification and Labelling of Chemicals (GHS)”

**Information on evaluation method leading to the classification of mixture** Not available.

**Full text of any H-statements not written out in full under Sections 2 to 15** H351 Suspected of causing cancer by inhalation.

**Revision information** Product and Company Identification: Alternate Trade Names  
Composition / Information on Ingredients: Disclosure Overrides  
Exposure Controls / Personal Protection: OELs  
HazReg Data: Pacific Rim  
GHS: Classification

**Training information** Not available.

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently available.