

# **SAFETY DATA SHEET**

# 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 Yellow M C2000H

Registration number

Registration number -

 Synonyms
 None.

 SDS No.
 842451

 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** 

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot 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: -

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Chemical name		%	CAS-No. / EC No.	<b>REACH Registration No.</b>	Index No.	Notes
Organic pigment		1 - 20	Confidential	Confidential	-	
	Classification: -		-			
Wax		1 - 20	Confidential	Confidential	-	
	Classification: -		-			
Silica		<10	7631-86-9 231-545-4	01-2119379499-16-xxxx	-	
	Classification: -					
Titanium dioxide		<1	13463-67-7 236-675-5	01-2119489379-17-xxxx	022-006-002	
	Classification: C	arc. 2;H	351			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 diphenyleters (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.

Wash off with soap and plenty of water. Skin contact

Rinse with plenty of water. If eye irritation persists: Get medical advice/attention. Eye contact

Rinse mouth thoroughly. Get medical advice/attention if you feel unwell. Ingestion

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

Water. Foam. Dry chemicals. Carbon dioxide (CO2).

media

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. Remove from the surface by skimming or with suitable absorbents. Collect dust using a vacuum

6.3. Methods and material for containment and cleaning up

cleaner equipped with HEPA filter.

6.4. Reference to other

sections

Not available.

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### **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/m3	Inhalable dust.
		2.4 mg/m3	Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	4 mg/m3	Respirable.
,		10 mg/m3	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 Not available.

concentrations (PNECs)

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 Not available.

controls

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical stateSolid.FormPowder.ColourYellow

**Odour** Sligthly 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

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Not available. **Auto-ignition temperature** Not available **Decomposition temperature** pН Not applicable

Solubility(ies)

Insoluble Solubility (water) **Partition coefficient** Not available

(n-octanol/water)

Vapour pressure Not applicable Not applicable Vapour density Not available. Relative density **Particle characteristics** Not available.

Dust explosion (like most finely grained organic powders) Other safety characteristics

**Density** Approx.1.2 **Evaporation rate** Not applicable Not flammable **Flammability** Not applicable **Viscosity** VOC <= 0.2

# **SECTION 10: Stability and reactivity**

10.1. Reactivity The product is stable and non reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

Dust explosive, but under the intended conditions of use, the probability of dust explosion is very

10.4. Conditions to avoid None under normal conditions.

10.5. Incompatible materials Not available.

10.6. Hazardous decomposition products At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

# **SECTION 11: Toxicological information**

Not available. **General information** 

Information on likely routes of exposure

Inhalation Not available. Skin contact Not available. Not available. **Eve contact** Not available. Ingestion Not available. **Symptoms** 

### 11.1. Information on toxicological effects

**Acute toxicity** 

**Product Species Test Results** 

Print Cartridge Yellow M C2000H

**Acute** Oral

LD50

Rat >= 5000 mg/kg

Skin corrosion/irritation

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

Print Cartridge Yellow 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 Yellow M C2000H Result: Non-irritant Species: Rabbit

Not available. Respiratory sensitisation

Skin sensitisation

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**Skin Sensitisation** 

Print Cartridge Yellow 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 Yellow 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

Specific target organ toxicity -

single exposure

Not available. Not available.

Specific target organ toxicity -

repeated exposure

Not available.

Aspiration hazard
Mixture versus substance

information

Not available.

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 Not available.

n-octanol/water (log Kow)

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 Not available.

name

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### 14.3. Transport hazard class(es)

Class Not available.

Subsidiary risk -

Hazard No. (ADR)
Not available.

Tunnel restriction code
14.4. Packing group
Not available.

14.5. Environmental hazards No.

**14.6. Special precautions** Not available.

for user

RID

14.1. UN numberNot available.14.2. UN proper shippingNot 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

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

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

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 Not available.

assessment

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

List of abbreviations Not available

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices References

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 Physical & Chemical Properties: Multiple Properties

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.

SDS UK