

## 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 C250H (Yellow toner)  
 Registration number -  
 Synonyms None.  
 SDS No. 408343  
 Issue date 20-August-2019  
 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 Ricoh Europe SCM B.V.  
 Address Blankenweg 24, 4612 RC Bergen op Zoom, The Netherlands  
 E-mail reu.compliance@ricoh-europe.com

Manufacturer Ricoh Co., Ltd.  
 Address Chome 3-6 Nakamagome, Ôta, Tokyo, 143-8555, Japan  
 E-mail msdsinfo@nts.ricoh.co.jp

## 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

Contains: Organic pigment, Organic Salt, Polyester Resin 1, Polyester Resin 2, Silica, Wax  
 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 1	40 - 60	Confidential	Confidential	-	
<b>Classification:</b>	-	-	-	-	
Polyester Resin 2	30 - 50	Confidential	Confidential	-	
<b>Classification:</b>	-	-	-	-	

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Organic pigment	1 - 10	77804-81-0 278-770-4	01-2119961353-38-xxxx	-	
<b>Classification:</b>	-				
Organic Salt	1 - 5	Confidential	Confidential	-	
<b>Classification:</b>	-				
Silica	1 - 5	Confidential	Confidential	-	
<b>Classification:</b>	-				
Wax	1 - 5	Confidential	Confidential	-	
<b>Classification:</b>	-				

**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 (CO2).  
**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** Avoid inhalation of dust.  
**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

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

## SECTION 8: Exposure controls/personal protection

<b>8.1. Control parameters</b>	
<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Recommended monitoring procedures</b>	Not available.
<b>Derived no effect levels (DNELs)</b>	Not available.
<b>Predicted no effect concentrations (PNECs)</b>	Not available.
<b>8.2. Exposure controls</b>	
<b>Appropriate engineering controls</b>	Not available.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>General information</b>	No special protective equipment required.
<b>Eye/face protection</b>	Not normally needed.
<b>Skin protection</b>	
- Hand protection	Not normally needed.
- Other	Not normally needed.
<b>Respiratory protection</b>	No personal respiratory protective equipment normally required.
<b>Thermal hazards</b>	Not available.
<b>Hygiene measures</b>	Not available.
<b>Environmental exposure controls</b>	Not available.

## SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	
<b>Physical state</b>	Solid.
<b>Form</b>	Not available.
<b>Colour</b>	Yellow.
<b>Odour</b>	Slightly plastic odour
<b>Odour threshold</b>	Not available
<b>pH</b>	Not applicable
<b>Melting point/freezing point</b>	(Softening point) Approx,110
<b>Initial boiling point and boiling range</b>	Not applicable
<b>Flash point</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapour pressure</b>	Not applicable
<b>Vapour density</b>	Not applicable
<b>Relative density</b>	Approx,1,2

<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Slightly soluble
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available
<b>Viscosity</b>	Not applicable
<b>Explosive properties</b>	Not available.
<b>Oxidising properties</b>	Not available.
<b>9.2. Other information</b>	Dust explosion (like most finely grained organic powders)
<b>Density</b>	Approx, 1,2
<b>Flammability</b>	Not flammable
<b>VOC</b>	<= 0,2

## 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 Yellow M C250H (Yellow toner)		
<u>Acute</u>		
<b>Oral</b>		
LD50	Rat	>= 5000 mg/kg

#### Skin corrosion/irritation

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

Print Cartridge Yellow M C250H (Yellow toner)	<= 1 Species: Rabbit Notes: Based on other product test results of similar ingredients.
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**Serious eye damage/eye irritation** Not available.

**Respiratory sensitisation** Not available.

#### Skin sensitisation

##### Skin sensitisation

Print Cartridge Yellow M C250H (Yellow toner)	0 % Species: Marmott Notes: Based on other product test results of similar ingredients.
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#### Germ cell mutagenicity

##### Germ cell mutagenicity: Ames test

Print Cartridge Yellow M C250H (Yellow toner)	Result: Negative Notes: Ames test
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<b>Carcinogenicity</b>	Not available.
<b>Reproductive toxicity</b>	Not available.
<b>Specific target organ toxicity - single exposure</b>	Not available.
<b>Specific target organ toxicity - repeated exposure</b>	Not available.
<b>Aspiration hazard</b>	Not available.
<b>Mixture versus substance information</b>	Not available.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	This material is not expected to be harmful to aquatic life.
<b>12.2. Persistence and degradability</b>	Not available.
<b>12.3. Bioaccumulative potential</b>	Not available.
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	Not available.
<b>12.5. Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture.
<b>12.6. Other adverse effects</b>	Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Not available.
<b>Contaminated packaging</b>	Not available.
<b>EU waste code</b>	Not available.
<b>Disposal methods/information</b>	Contract with a disposal operator licensed by the Law on Disposal and Cleaning.
<b>Special precautions</b>	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. - 14.6.: Not regulated as dangerous goods.

### RID

14.1. - 14.6.: Not regulated as dangerous goods.

### ADN

14.1. - 14.6.: Not regulated as dangerous goods.

### IATA

14.1. - 14.6.: Not regulated as dangerous goods.

### IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

## 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 (EC) No. 850/2004 On persistent organic pollutants, Annex I 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**  
Not listed.

**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** None.

**Revision information** None.

**Training information** Not available.

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