# RICOH

# SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

Print Cartridge Black M C250H (Black toner)

of the mixture

Registration number

**Synonyms** None. SDS No. 408340

20-August-2019 Issue date

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

Not available. **Hazard summary** 

2.2. Label elements

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

Organic Salt, Polyester Resin 1, Polyester Resin 2, Silica, Wax Contains:

**Hazard pictograms** None. None. Signal word

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

**Precautionary statements** 

Not available. Prevention Not available. Response Not available. Storage **Disposal** Not available.

Supplemental label information None

2.3. Other hazards None known.

# **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

#### **General information**

Classification:

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Polyester Resin 1	40 - 60	Confidential	Confidential	-	
		-			
Classification: -					
Polyester Resin 2	20 - 40	Confidential	Confidential	-	
		-			

Material name: Print Cartridge Black M C250H (Black toner) - 408340

SDS EU 408340 Version #: 01 Issue date: 20-August-2019

Chemical name	%	CAS-No. / EC No.	<b>REACH Registration No.</b>	Index No.	Notes
Carbon Black	1 - 10	1333-86-4 215-609-9	01-2119384822-32-xxxx	-	
Classification: -					
Organic Salt	1 - 5	Confidential	Confidential	-	
Classification: -					
Silica	1 - 5	Confidential	Confidential	-	
Classification: -					
Wax	1 - 5	Confidential	Confidential	-	
Classification: -		-			

**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

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. 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.

# **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.

Not available. 7.3. Specific end use(s)

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

## Oc

Belgium. Exposure Limit Values Components	Туре	Value	
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	
Bulgaria. OELs. Regulation No 1 Components	3 on protection of workers aga Type	inst risks of exposure to che Value	mical agents at work Form
Carbon Black (CAS 1333-86-4)	TWA	3,5 mg/m3	Inhalable fraction.
Croatia. Dangerous Substance E Components	xposure Limit Values in the W Type	orkplace (ELVs), Annexes 1 a Value	nd 2, Narodne Novine, 13/0
Carbon Black (CAS 1333-86-4)	MAC	3,5 mg/m3	
	STEL	7 mg/m3	
Cyprus. OELs. Control of factory Components	atmosphere and dangerous s Type	ubstances in factories regula Value	tion, PI 311/73, as amende
Carbon Black (CAS 1333-86-4)	TWA	3,5 mg/m3	
Czech Republic. OELs. Governm Components	ent Decree 361 Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	2 mg/m3	Dust.
Denmark. Exposure Limit Values Components	Type	Value	
Carbon Black (CAS 1333-86-4)	TLV	3,5 mg/m3	
Finland. Workplace Exposure Lii	nits		
Components	Туре	Value	
Carbon Black (CAS 1333-86-4)	STEL	7 mg/m3	
	TWA	3,5 mg/m3	
France. Threshold Limit Values ( Components	VLEP) for Occupational Expos Type	ure to Chemicals in France, l Value	NRS ED 984
Carbon Black (CAS 1333-86-4)	VME	3,5 mg/m3	
Regulatory status: Indicati	ve limit (VL)		
Greece. OELs (Decree No. 90/199			
Components	Туре	Value	
Carbon Black (CAS 1333-86-4)	STEL	7 mg/m3	
	TWA	3,5 mg/m3	
Iceland. OELs. Regulation 154/19			
Components	Туре	Value	
Carbon Black (CAS	TWA	3,5 mg/m3	

1333-86-4)

Components	Туре	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Italy. Occupational Expos Components	ure Limits Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Latvia. OELs. Occupations Components	al exposure limit values of chemical s Type	ubstances in work environm Value	ent Form
Carbon Black (CAS 1333-86-4)	TWA	4 mg/m3	Dust.
Norway. Administrative No Components	orms for Contaminants in the Workpla Type	ace Value	
Carbon Black (CAS 1333-86-4)	TLV	3,5 mg/m3	
	of Labour and Social Policy on 6 Jun		
Components	Туре	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	4 mg/m3	Inhalable fraction.
Portugal. VLEs. Norm on Components	occupational exposure to chemical aç Type	jents (NP 1796) Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Fume.
Slovakia. OELs. Regulatio Components	n No. 300/2007 concerning protection Type	of health in work with chem Value	ical agents
Carbon Black (CAS 1333-86-4)	TWA	2 mg/m3	
Spain. Occupational Expo Components	sure Limits Type	Value	
Carbon Black (CAS 1333-86-4)	TWA	3,5 mg/m3	
UK. EH40 Workplace Expo	osure Limits (WELs) Type	Value	
Carbon Black (CAS	STEL	7 mg/m3	
1333-86-4)	TWA	3,5 mg/m3	
ogical limit values	No biological exposure limits noted f	or the ingredient(s).	
ommended monitoring cedures	Not available.	- 0(-)	
ived no effect levels ELs)	Not available.		
dicted no effect centrations (PNECs)	Not available.		
Exposure controls			
ropriate engineering trols	Not available.		
vidual protection measure	s, such as personal protective equipn	nent	
General information	No special protective equipment req		
Eye/face protection	Not normally needed.		
Skin protection			
- Hand protection	Not normally needed.		
- Other	Not normally needed.		
Respiratory protection	No personal respiratory protective e	quipment normally required.	
Thormal hazarde	Not available	,	

Not available.

Thermal hazards

Not available. Hygiene measures Not available. **Environmental exposure** 

controls

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

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Solid. **Physical state** 

Not available. **Form** Not available. Colour Not available. Odour **Odour threshold** Not available Not applicable

(Softening point) Approx,110 Melting point/freezing point

Initial boiling point and boiling

range

Not applicable

Flash point Not applicable **Evaporation rate** Not applicable Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

(%)

Not applicable Vapour pressure Vapour density Not applicable Relative density Approx,1,2

Solubility(ies)

Solubility (water) Insoluble **Partition coefficient** Not available (n-octanol/water)

Not available. **Auto-ignition temperature** Not available **Decomposition temperature** Not applicable **Viscosity** Not available. **Explosive properties Oxidising properties** Not available.

9.2. Other information Dust explosion (like most finely grained organic powders)

**Density** Approx,1,2 Not flammable **Flammability** Specific gravity 1.8 estimated <= 0,2

VOC

## **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

low

None under normal conditions. 10.4. Conditions to avoid

Not available. 10.5. Incompatible materials

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

decomposition products

# **SECTION 11: Toxicological information**

**General information** Not available.

Information on likely routes of exposure

Inhalation Not available. Not available. Skin contact

Not available. Eye contact Ingestion Not available. Not available. **Symptoms** 

11.1. Information on toxicological effects

**Acute toxicity** 

**Test Results Product Species** 

Print Cartridge Black M C250H (Black toner)

Acute Oral

LD50 Rat >= 5000 mg/kg

Skin corrosion/irritation

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

Print Cartridge Black M C250H (Black toner) <= 1

Species: Rabbit

Notes: Based on other product test results of similar

ingredients.

Serious eye damage/eye

irritation

Not available.

Not available. Respiratory sensitisation

Skin sensitisation

Skin sensitisation

Print Cartridge Black M C250H (Black toner)

Species: Marmott

Notes: Based on other product test results of similar

ingredients.

0 %

Germ cell mutagenicity

Germ cell mutagenicity: Ames test

Print Cartridge Black M C250H (Black toner) Result: Negative

Notes: Ames test

In 1996, the IARC re-evaluated carbon black as a Group 2B carcinogen for which there is Carcinogenicity

inadequate human evidence, but sufficient animal evidence. However, there is a two-year inhalation study for a toner containing carbon black, which demonstrated no association between toner exposure and tumour development in rats even if the amount of carbon black powder is

changed.

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.

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.

Not available. 12.3. Bioaccumulative potential Not available. Partition coefficient

n-octanol/water (log Kow)

12.4. Mobility in soil

Not available. **Bioconcentration factor (BCF)** Not available.

12.5. Results of PBT and vPvB

Not a PBT or vPvB substance or mixture.

assessment

12.6. Other adverse effects Not available.

**SECTION 13: Disposal considerations** 

13.1. Waste treatment methods

Residual waste Not available.

Not available. Contaminated packaging Not available. EU waste code

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.

Not available.

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.

according to Annex II of

14.7. Transport in bulk

MARPOL 73/78 and the IBC

Code

# **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

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

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

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.

Not available. **National regulations** 15.2. Chemical safety Not available.

assessment

#### **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

None.

Sections 2 to 15

None.

**Revision information** 

Not available.

**Training information Disclaimer** 

The information in the sheet was written based on the best knowledge and experience currently

available.

Material name: Print Cartridge Black M C250H (Black toner) - 408340 408340 Version #: 01 Issue date: 20-August-2019