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 MP 6054 (Black toner)

of the mixture

Registration number

Synonyms None. SDS No. 842127 13-July-2020 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

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

Ricoh Europe SCM B.V. **Importer**

Address Blankenweg 24, 4612 RC Bergen op Zoom, The Netherlands

E-mail reu.compliance@ricoh-europe.com

Ricoh Co., Ltd. Manufacturer

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

msdsinfo@nts.ricoh.co.jp E-mail

1.4. Emergency telephone

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

Not available. **Hazard summary**

2.2. Label elements

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

Hazard pictograms None. Signal word None

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

Precautionary statements

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

Supplemental label information None

None known. 2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Material name: Print Cartridge MP 6054 (Black toner) - 842127 SDS UK 842127 Version #: 01 Issue date: 13-July-2020

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Polyester resin	80 - 100	Confidential	Confidential	-	
Classification: -		-			
Carbon Black	<15	1333-86-4 215-609-9	01-2119384822-32-xxxx	-	
Classification: -					
Wax	<10	Confidential	Confidential	-	
Classification: -					
Titanium dioxide	<1	13463-67-7 236-675-5	01-2119489379-17-xxxx	-	
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).

Unsuitable extinguishing

media

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

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

Components	Туре	Value	Form
Carbon Black (CAS 1333-86-4)	STEL	7 mg/m3	
	TWA	3.5 mg/m3	
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.

Not available.

Predicted no effect

concentrations (PNECs)

8.2. Exposure controls

Appropriate engineering

Not available.

controls

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

Appearance

Physical stateSolid.FormPowder.ColourBlack.

Odour Sligthly plastic odour

Odour threshold Not available pH Not applicable

Melting point/freezing point (Softening point) Approx.100

Initial boiling point and boiling

range

Not applicable

Flash point

Evaporation rate

Not applicable
Not applicable
Not available.

Material name: Print Cartridge MP 6054 (Black toner) - 842127

842127 Version #: 01 Issue date: 13-July-2020

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Vapour pressureNot applicableVapour densityNot applicableRelative densityNot available.

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not available

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot availableViscosityNot applicableExplosive propertiesNot available.Oxidising propertiesNot available.

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

DensityApprox.1.2FlammabilityNot flammable

VOC <= 0.2

SECTION 10: Stability and reactivity

10.1. ReactivityThe 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.

10.4. Conditions to avoidNone under normal conditions.

10.5. Incompatible materials Not available.

10.6. Hazardous At thermal de

decomposition products

At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

General information Not available.

Information on likely routes of exposure

InhalationNot available.Skin contactNot available.Eye contactNot available.IngestionNot available.SymptomsNot available.

11.1. Information on toxicological effects

Acute toxicity

Product Species Test Results

Print Cartridge MP 6054 (Black toner)

<u>Acute</u> Oral

LD50 Rat >= 5000 mg/kg

Skin corrosion/irritation

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

Print Cartridge MP 6054 (Black toner) <=

Species: Rabbit

Notes: Based on other product test results of similar

ingredients.

Serious eye damage/eye

irritation

Not available.

Respiratory sensitisation Not available.

Skin sensitisation

Skin Sensitisation

Print Cartridge MP 6054 (Black toner)

0 %

Species: Marmott

Notes: Based on other product test results of similar

ingredients.

Germ cell mutagenicity

Germ cell mutagenicity: Ames test

Print Cartridge MP 6054 (Black toner) Result: Negative Notes: Ames test

Carcinogenicity

In 1996, the IARC re-evaluated carbon black as a Group 2B carcinogen for which there is 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. 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. Carbon black and titanium dioxide contained in this product are classified to Group 2B of IARC as the result of inhalation test in use of rat.

But oral/skin test does not show carcinogenicity.

The toner containing carbon black did not show carcinogenicity in chronic inhalation exposure test

in use of rat.

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.

Other information

Not available.

SECTION 12: Ecological information

This material is not expected to be harmful to aquatic life. 12.1. Toxicity

12.2. Persistence and

degradability

Not available.

Not available. 12.3. Bioaccumulative potential 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. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Not available. Contaminated packaging Not available. 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.

The contents will splash and cause burns.

Material name: Print Cartridge MP 6054 (Black toner) - 842127

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

Not available.

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 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

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.

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 MP 6054 (Black toner) - 842127

SDS UK 842127 Version #: 01 Issue date: 13-July-2020