RICOH

SAFETY DATA SHEET

Version #: 02

Issue date: 05-July-2021 Revision date: 28-March-2022 Supersedes date: 05-July-2021

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 MP 305 (Black toner)

Registration number

Synonyms None. SDS No. 842142

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 Schweiz AG

Address Hertistrasse 2 CH - 8304 Wallisellen, Switzerland

 Phone
 41 844 360 360

 E-mail
 tqm@ricoh.ch

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

1.4 Urgent call phone

number

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

2.2. Label elements

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

Contains: Wax
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

Material name: Print Cartridge MP 305 (Black toner) - 842142

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eneral information					
Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Polyester Resin	80 - 100	Confidential	Confidential	-	
Classific	cation: -				
Carbon Black	<15	1333-86-4 215-609-9	01-2119384822-32-xxxx	-	
Classific	cation: -				
Wax	<10	Confidential	Confidential	-	
Classific	cation: -	-			
titanium dioxide [in powder forn containing 1 % or more of partio with aerodynamic diameter = 10	cles	13463-67-7 236-675-5	01-2119489379-17-xxxx	022-006-002	
Classification: Carc. 2;H351					V,W

List of abbreviations and symbols that may be used above

Note V - If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.

Note W - It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to Regulation (EC) No 1272/2008, as amended.

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

Not available. General information

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.

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 Treat symptomatically.

immediate medical attention and special treatment needed

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

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.

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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.

Not available. 7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Switzerland, SUVA Grenzwerte am Arbeitsplatz

Components	Туре	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 µm] (CAS 13463-67-7)	TWA	3 mg/m3	Respirable dust.

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

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 If necessary, Wear eye/face protection. If necessary,

Skin protection

- Hand protection If necessary, Wear suitable gloves.

Wear suitable coveralls to prevent exposure to the skin. - Other

Respiratory protection No personal respiratory protective equipment normally required.

Thermal hazards Not available.

Hygiene measures Wash hands after handling.

Environmental exposure

controls

Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid. Powder. **Form** Colour Black

Sligthly plastic odour Odour

Odour threshold Not available Not available. Melting point/freezing point Boiling point or initial boiling Not applicable point and boiling range

Flammability Not available. Not applicable Flash point Not available. Auto-ignition temperature

Material name: Print Cartridge MP 305 (Black toner) - 842142 SDS SWITZERLAND Decomposition temperatureNot availablepHNot applicableKinematic viscosityNot available.

Solubility

Solubility (water) Insoluble

Partition coefficient Not available

(n-octanol/water) (log value)

Vapour pressure Not applicable

Density and/or relative density

Density1,20 g/cm3Vapour densityNot applicableParticle characteristicsNot available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No relevant additional information available.

9.2.2. Other safety characteristics

Dust explosion (like most finely grained organic powders)

Evaporation rateNot applicableFlammability (temperature)Not flammableSoftening point100 °C (212 °F)ViscosityNot applicableVOC<= 0.2 %</th>

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

OW.

10.4. Conditions to avoid None under normal conditions.

10.5. Incompatible materials Not available.

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

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 305 (Black toner)

<u>Acute</u> Oral

LD50 Rat >= 5000 mg/kg

Skin corrosion/irritation

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

Print Cartridge MP 305 (Black toner) <= 1

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

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Skin Sensitisation

Print Cartridge MP 305 (Black toner)

Species: Marmott

Notes: Based on other product test results of similar

ingredients.

Germ cell mutagenicity

Germ cell mutagenicity: Ames test

Print Cartridge MP 305 (Black toner) Result: Negative

Notes: Ames test

Carcinogenicity

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.

IARC Monographs. Overall Evaluation of Carcinogenicity

titanium dioxide [in powder form containing 1 % or more 2B Possibly carcinogenic to humans.

of particles with aerodynamic diameter = 10 uml

(CAS 13463-67-7)

Reproductive toxicity

Not available.

Specific target organ toxicity -

Not available.

single exposure

Specific target organ toxicity -

repeated exposure

Not available

Aspiration hazard

Not available.

Mixture versus substance

Not available.

information

11.2. Information on other hazards

Endocrine disrupting

Other information

Not available.

properties

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.

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

n-octanol/water (log Kow)

Not available. **Bioconcentration factor (BCF)** Not available. 12.4. Mobility in soil

12.5. Results of PBT and vPvB

assessment

Not a PBT or vPvB substance or mixture.

12.6. Endocrine disrupting

properties

Not available.

Not available. 12.7. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Not available. Residual waste 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.

The contents will splash and cause burns.

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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. 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

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

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

Switzerland. Schedules 1A-3B on Substances Subject to ChKV, Regulation on the Control of Chemicals with Civilian and Military Use (ChKV)

Not listed.

15.2. Chemical safety

Not available.

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

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)"

JIS Z 7253:2012 Hazard communication of chemicals based on GHS – Labelling and Safety Data

Sheet (SDS)

National Toxicology Program (NTP) Report on Carcinogens

US. IARC Monographs on Occupational Exposures to Chemical Agents

Material name: Print Cartridge MP 305 (Black toner) - 842142 842142 Version #: 02 Revision date: 28-March-2022 Issue date: 05-July-2021 Information on evaluation method leading to the classification of mixture

Not available.

Full text of any statements, which are not written out in full under sections 2 to 15

H351 Suspected of causing cancer.

Revision information

Product and Company Identification: Alternate Trade Names

Composition / Information on Ingredients: Ingredients

SECTION 3: Composition/information on ingredients: Component information

Exposure Controls / Personal Protection: OELs

SECTION 8: Exposure controls/personal protection: - Other Physical & Chemical Properties: Multiple Properties

Regulatory Information: Regulatory Information 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.

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