

SAFETY DATA SHEET

Version #: 02

Issue date: 22-April-2022 Revision date: 01-February-2023 Supersedes date: 22-April-2022

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

1.1. Product identifier

Trade name or designation

Print Cartridge Black IM C2510H(Black toner)

of the mixture

Registration number -

Synonyms None. SDS No. 842561

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 No other uses are advised.

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

145

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

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: - | | - | | | |
| Carbon Black | | 1 - 10 | 1333-86-4 215-609-9 | 01-2119384822-32-xxxx | - | |
| | Classification: - | • | | | | |
| Silica | | 1 - 10 | 7631-86-9 231-545-4 | 01-2119379499-16-xxxx | - | |
| | Classification: - | | | | | |
| Wax | | 1 - 10 | Confidential | Confidential | - | |
| | Classification: - | | - | | | |

Composition comments

This product does not contain any of the following RoHS 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

Move to fresh air. Get medical attention, if needed. Inhalation

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

Gargle with plenty of water and move to a fresh air location. Please see a doctor if necessary. 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 Like ordinary organic fine powder, it can burn explosively if scattered in the air.

5.3. Advice for firefighters

Special protective equipment for firefighters

If necessary, wear appropriate protective equipment (gloves, glasses, mask, etc.). If you are burning a lot, you need normal fire protection equipment.

Special fire fighting procedures

No special fire extinguishing method is required. Generally, extinguish the fire with water or a fire extinguishing agent.

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.

6.3. Methods and material for containment and cleaning up Fine particles can form an explosive mixture with air, so make sure there is no fire around you. If there is a fire, remove it and then wipe it off with a cloth moistened with water to prevent the toner from scattering as much as possible. If it is unavoidable to use a vacuum cleaner, be sure to use a

vacuum cleaner with dust-proof and explosion-proof safety measures.

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

Keep out of reach of children. Keep at a temperature not exceeding 35 °C in quality. Avoid direct

sunlight in quality.

Not available. 7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

| Switzerland. SUVA Grenzwerte a Components | Type | Value | Form |
|---|------|----------|------------------|
| Carbon Black (CAS 1333-86-4) | TWA | 3 mg/m3 | Respirable dust. |
| | | 10 mg/m3 | Inhalable dust. |
| Silica (CAS 7631-86-9) | TWA | 4 mg/m3 | |

No biological exposure limits noted for the ingredient(s).

Biological limit values

Recommended monitoring

Not available.

procedures

Derived no effect levels

Not available.

(DNELs)

Predicted no effect

Not available

concentrations (PNECs)

8.2. Exposure controls

Appropriate engineering

Proper ventilation should be provided. However, it is not necessary for the intended purpose.

controls

Individual protection measures, such as personal protective equipment

General information No special protective equipment required.

Eve/face protection Not normally needed. If necessary. Wear eye/face protection.

Skin protection

- Hand protection Not normally needed. If necessary, Wear suitable gloves.

- Other Not normally needed. If necessary, Wear suitable protective clothing.

Respiratory protection Not required under normal usage conditions. However, if the specified exposure limit concentration

is exceeded, use a licensed dustproof breathing device.

Thermal hazards Not applicable.

Wash hands after handling. Hygiene measures

Environmental exposure

controls

Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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

Sligthly plastic odour Odour

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

point and boiling range **Flammability** Not available. Flash point Not applicable Not available. Auto-ignition temperature **Decomposition temperature** Not available Not applicable Not available. Kinematic viscosity

Solubility

Solubility (water) Insoluble

Partition coefficient

(n-octanol/water) (log value)

Not available

Vapour pressure

Not applicable

Density and/or relative density

Density1,50 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

Dust explosion (like most finely grained organic powders)

characteristics

Evaporation rateNot applicableFlammability (temperature)Not flammableSoftening point90 °C (194 °F)ViscosityNot applicable

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

10.4. Conditions to avoid None under normal conditions.10.5. Incompatible materials None under normal conditions.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product Species Test Results

Print Cartridge Black IM C2510H(Black toner)

<u>Acute</u> Oral

LD50 Rat

>= 5000 mg/kg Based on other product test

results of similar ingredients.

Skin corrosion/irritation

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

<= 1

Species: Rabbit

Notes: Based on other product test results of similar

ingredients.

Serious eye damage/eye irritation

Irritation Corrosion - Eye

Result: Non-irritant Species: Rabbit

Notes: Based on other product test results of similar

ingredients.

Respiratory sensitisation Not available.

Skin sensitisation

Skin Sensitisation

Result: Non-skinsensitive

Species: Mouse

Notes: Based on other product test results of similar

ingredients.

Germ cell mutagenicity

Germ cell mutagenicity: Ames test

Result: Negative

Carcinogenicity

The carbon black contained in this product falls under IARC rank 2B of carcinogens. This classification is based on the results of an inhalation test on rats, but no carcinogenicity was observed in dermal and oral ingestion tests on rats. Also, there is no possibility of inhaling carbon black from this product. Therefore, this product Powdered carbon black is not released into the

air. No carcinogenicity has been observed when ingested through the mouth or skin.

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.

Not available. Other information

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 **Bioconcentration factor (BCF)**

Not available. Not available.

12.4. Mobility in soil 12.5. Results of PBT and vPvB Not available.

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

Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions

Do not throw in contents or fire containing contents.

The contents will splash and cause burns.

SECTION 14: Transport information

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 applicable. according to IMO instruments

Material name: Print Cartridge Black IM C2510H(Black toner) - 842561

SDS SWITZERLAND

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

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

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

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

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 7252:2019 Classification of chemicals based on "Globally Harmonized System of

Classification and Labelling of Chemicals (GHS)"

JIS Z 7253:2019 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

· Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats H.Muhle et.al

Fundamental and Applied Toxicology 17.280-299(1991)

· Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation

Exposure in Rats B.Bellmann Fundamental and Applied Toxicology 17.300-313(1991)

International Agency for Research on Cancer IARC: International Agency for Research on Cancer

Carcinogenicity classification Group 1: Carcinogenic to humans

Group 2A: Probably carcinogenic to humans Group 2B: May be carcinogenic to humans

Group 3: Cannot be classified as carcinogenic to humans

Group 4: Probably not carcinogenic to humans

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

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.