

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation Toner

of the mixture

Toner MP 9002 (Black toner)

Registration number

 Synonyms
 None.

 SDS No.
 842346

 Issue date
 27-May-2021

Version number 02

Revision date 09-August-2022 Supersedes date 02-August-2022

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

Importer and 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

Manufacturer Ricoh Co., Ltd.

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

E-mail zjc_sdsinfo@jp.ricoh.com

1.4.Emergency telephone

number

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

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.NotesPolyester Resin>80ConfidentialConfidential-

Classification: -

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Carbon Black		1-10	1333-86-4 215-609-9	01-2119384822-32-xxxx	-	#
	Classification: -					
Wax		1-10	8015-86-9 232-399-4	Excempt	-	
	Classification: -					
Amorphous silica		0.1 - 1	7631-86-9 231-545-4	01-2119379499-16-xxxx	-	
	Classification: -					
Titanium dioxide		<1	13463-67-7 236-675-5	01-2119489379-17-xxxx	022-006-002	#
	Classification: C	arc. 2;H3	51			

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

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

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

Skin contact Wash off with soap and plenty of water.

Rinse with plenty of water. If eye irritation persists: Get medical advice/attention. Eve 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

Treat symptomatically.

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).

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.

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods

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

Do not discharge into drains, water courses or onto the ground. Avoid release to the environment.

6.2. Environmental precautions 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

UK. EH40 Work	place Exposi	re Limits	(WELs)

Components	Type	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

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

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

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

controls

Individual protection measures, such as personal protective equipment

No special protective equipment required. **General information**

Not normally needed. If necessary, Wear eye/face protection. Eye/face protection

Skin protection

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

- Other Not normally needed. If necessary, Wear suitable coveralls to prevent exposure to the skin.

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

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

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

Sligthly plastic odour Odour

Odour threshold Not available Not applicable Melting point/freezing point Not available. Initial boiling point and boiling Not applicable

range

Not applicable Flash point **Evaporation rate** Not applicable Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper

(%)

Vapour pressure Not applicable Vapour density Not applicable Not available. Relative density

Solubility(ies)

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

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

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

Density 1.20 g/cm3 **Flammability** Not flammable 110 °C (230 °F) Softening point VOC <= 0.2 %

SECTION 10: Stability and reactivity

The product is stable and non reactive under normal conditions of use, storage and transport. 10.1. Reactivity

Material is stable under normal conditions. 10.2. Chemical stability

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 avoid None under normal conditions. None under normal conditions. 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

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

11.1. Information on toxicological effects

Acute toxicity

Product Test Results Species

Toner MP 9002 (Black toner)

Acute Oral

LD50 Rat >= 5000 mg/kg

Skin corrosion/irritation

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

Toner MP 9002 (Black toner) Result: Non-irritant

Species: Rabbit

Serious eye damage/eye

irritation

Not available.

Not available. Respiratory sensitisation

Skin sensitisation

Skin Sensitisation

Toner MP 9002 (Black toner)

Species: Marmott

Germ cell mutagenicity

Germ cell mutagenicity: Ames test

Toner MP 9002 (Black toner) Result: Negative Notes: Ames test

Carbon black contained in this product is classified to Group 2B of IARC as the result of inhalation Carcinogenicity

0 %

test in use of rat.

This is due to the fact that rat alone showed lung tumor in the animal experiment under very high

concentration.

During a normal use of this product, design of the cartridge proves it impossible to have powder

carbon black released to the air.

Intake from the mouth and skin does not show carcinogenicity.

Titanium dioxide contained in this product is classified to Group 2B of IARC as the result of

inhalation test in use of rat.

This is due to the fact that rat alone showed lung tumor in the animal experiment under very high

concentration.

During a normal use of this product, design of the cartridge proves it impossible to have powder

titanium dioxide released to the air.

Intake from the mouth and skin does not show carcinogenicity.

Reproductive toxicity

Specific target organ toxicity -

single exposure

Not available. Not available.

Specific target organ toxicity -

repeated exposure

Not available.

Not available. **Aspiration hazard** Mixture versus substance

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 **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.

Not available. 12.6. Other adverse effects

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

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.

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Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Retained direct 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

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

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 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.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended Not listed

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

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

· 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) • Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats H.Muhle et.al Fundamental and Applied Toxicology 17.280-299(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

H351 Suspected of causing cancer by inhalation.

Revision information Training information

This document has undergone significant changes and should be reviewed in its entirety.

Not available.

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

available.

Material name: Toner MP 9002 (Black toner) - 842346 SDS GREAT BRITAIN

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