

SAFETY DATA SHEET

Version #: 02

Issue date: 26-June-2019 Revision date: 10-August-2022 Supersedes date: 02-August-2022

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

1.1. Product identifier

Trade name or designation

RICOH / Nashuatec / Rex-Rotary / Gestetner Toner MP 2014 (Black toner)

of the mixture

Registration number -

Synonyms None. SDS No. 842128

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 14

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	>80	Confidential	Confidential	-	
	Classification: -	-			
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: Carc. 2;H3	351			

List of abbreviations and symbols that may be used above

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.

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.

Ingestion Gargle with plenty of water and move to a fresh air location. Please see a doctor if necessary.

4.2. Most important symptoms and effects, both acute and

ns Not available.

and effects, both acute and

delayed
4.3. Indication of any

ny 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).

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 methodsUse 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 Not available.

personnel

.....

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.

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Switzerland. SUVA Grenzwerte a Components	am Arbeitsplatz Type	Value	Form
Amorphous silica (CAS 7631-86-9)	TWA	4 mg/m3	
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable dust.

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

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

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

Individual protection measures, such as personal protective equipment

General information No special protective equipment required.

Eye/face protection Not normally needed.lf 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 coveralls to prevent exposure to the skin.

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.

Hygiene measures Wash hands after handling.

Environmental exposure

intal exposure

controls

Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical stateSolid.FormPowder.ColourBlack.

Odour Sligthly plastic odour

Odour threshold Not available

Melting point/freezing point Not available.

Boiling point or initial boiling point and boiling range

4200 °C (7592 °F) estimated

Not applicable

Flammability (solid, gas)

Flash point

Auto-ignition temperature

Decomposition temperature

PH

Not available

Not available

Not applicable

Not applicable

Not applicable

Not applicable

Not available.

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not available

(n-octanol/water)

Vapour pressureNot applicableVapour densityNot applicableRelative densityNot available.Particle 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)

Density 1,97 g/cm3 estimated

1,20 g/cm3

Evaporation rateNot applicableFlammabilityNot flammableSoftening point110 °C (230 °F)Specific gravity1,97 estimatedViscosityNot applicableVOC<= 0,2 %</th>

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 stabilityMaterial 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 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 toxicological effects

Acute toxicity

Product Species Test Results

RICOH / Nashuatec / Rex-Rotary / Gestetner Toner MP 2014 (Black toner)

Acute Oral

LD50 Rat >= 5000 mg/kg

Skin corrosion/irritation

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

RICOH / Nashuatec / Rex-Rotary / Gestetner Toner
MP 2014 (Black toner)
Result: Non-irritant
Species: Rabbit

Serious eye damage/eye

irritation

Not available.

Respiratory sensitisation

Not available.

Skin sensitisation

Skin Sensitisation

RICOH / Nashuatec / Rex-Rotary / Gestetner Toner

MP 2014 (Black toner)

Result: Non-skinsensitive

Species: Marmott

Germ cell mutagenicity

Germ cell mutagenicity: Ames test

RICOH / Nashuatec / Rex-Rotary / Gestetner Toner
MP 2014 (Black toner)
Result: Negative
Notes: Ames test

Carcinogenicity

Carbon black 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

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.

IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

Reproductive toxicity

Specific target organ toxicity -

single exposure

Not available. Not available.

Specific target organ toxicity -

Specific target orga 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.

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

Not available.

degradability

12.3. Bioaccumulative potential Not available.

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. 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

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 applicable. **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

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

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.

National regulations Not available.

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.

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.