

SAFETY DATA SHEET

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

1.1. Product identifier	
Trade name or designation of the mixture	RICOH / Nashuatec / Rex-Rotary / Gestetner Toner MP 2014 (Black toner)
Registration number	_
Synonyms	None.
SDS No.	842128
Issue date	12-08-2005
Version number	03
Revision date	01-06-2019
Supersedes date	12-08-2005
1.2. Relevant identified uses of t	he 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	e 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
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.Emergency telephone number	111 (UK only)
SECTION 2: Hazards ident	lification
2.1. Classification of the substant	nce or mixture
Classification according to Reg	ulation (EC) No 1272/2008 as amended
Hazard summary	Not available.
2.2. Label elements	
Label according to Regulation (I	EC) No. 1272/2008 as amended
Contains:	Polyester resin, Wax
Hazard pictograms	None.
Signal word	None.
Hazard statements	The mixture does not meet the criteria for classification.
Precautionary statements	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Supplemental label information	None.
2.3. Other hazards	None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	%	CAS-No. / EC No	. REACH Registration No.	Index No.	Notes
Polyester resin	>80	Confidential	Confidential	-	•
Classification: -		-			
Carbon Black	<15	1333-86-4 215-609-9	01-2119384822-32-xxxx	-	
Classification: -		210 000 0			
Wax	<10	8015-86-9 232-399-4	Excempt	-	
Classification: -					
Titanium dioxide	0.1 - 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 meas	sures				
General information	Not available.				
4.1. Description of first aid meas					
Inhalation		. Get medical attention	,		
Skin contact		ap and plenty of wate		vian lattention	
Eye contact		-	tion persists: Get medical adv		
Ingestion	Not available.	ougniy. Get medical	advice/attention if you feel ur	iwell.	
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 m	neasures				
General fire hazards	Not available.				
5.1. Extinguishing media Suitable extinguishing	Water. Foam. Dry	y chemicals. Carbon	dioxide (CO2).		
media Unsuitable extinguishing media	Not available.				
5.2. Special hazards arising from the substance or mixture			lust; fine dust dispersed in air is a potential dust explosion h		ntrations, and
5.3. Advice for firefighters Special protective	Wear suitable pro	otective equipment.			
equipment for firefighters Special fire fighting	Not available.				
procedures		6 1 4			
Specific methods			and consider the hazards of o	ther involved mate	erials.
SECTION 6: Accidental rel	lease measure	S			
6.1. Personal precautions, prote For non-emergency personnel	ctive equipment a Avoid inhalation o		cedures		
For emergency responders	Not available.				
6.2. Environmental precautions	Do not discharge	into drains, water co	ourses or onto the ground. Ave	oid release to the e	environment.
6.3. Methods and material for containment and cleaning up	-	surface by skimmin	g or with suitable absorbents.		
C. A. Defense to other	Netevoileble				

6.4. Reference to other Not available. sections

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

UK. EH40 Workplace Exposure Limits (WELs) Value Form Components Туре Carbon Black (CAS STEL 7 mg/m3 1333-86-4) TWA 3.5 mg/m3 Titanium dioxide (CAS TWA 4 mg/m3 Respirable. 13463-67-7) 10 mg/m3 Inhalable No biological exposure limits noted for the ingredient(s). **Biological limit values** Not available. **Recommended monitoring** procedures Not available. **Derived no effect levels** (DNELs) **Predicted no effect** Not available. concentrations (PNECs) 8.2. Exposure controls Not available. Appropriate engineering controls Individual protection measures, such as personal protective equipment No special protective equipment required. **General information** Eye/face protection Not normally needed. **Skin protection** - Hand protection Not normally needed. Not normally needed. - Other No personal respiratory protective equipment normally required. **Respiratory protection Thermal hazards** Not available. Hygiene measures Not available. Not available. **Environmental exposure** controls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Solid.
Form	Powder.
Colour	Black.
Odour	Sligthly plastic odour
Odour threshold	Not available
рН	Not applicable
Melting point/freezing point	(Softening point) Approx.110
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	Approx. 1.2
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available.
Decomposition temperature	Not available
Viscosity	Not applicable
Explosive properties	Not available.
Oxidising properties	Not available.
9.2. Other information	Dust explosion (like most finely grained organic powders)
Density	Approx. 1.2
Flammability	Not flammable
Specific gravity	1.95 estimated
VOC	<= 0.2

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 low.
10.4. Conditions to avoid	None under normal conditions.
10.5. Incompatible materials	Not available.
10.6. Hazardous 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		
Inhalation	Not available.		
Skin contact	Not available.		
Eye contact	Not available.		
Ingestion	Not available.		
Symptoms	Not available.		
11.1. Information on toxicolog	ical effects		
Acute toxicity			
Product	Species		Test Results
RICOH / Nashuatec / Rex-Rotar	y / Gestetner Toner MP 2014 (B	Black toner)	
<u>Acute</u>			
Oral			
LD50	Rat		>= 5000 mg/kg
Skin corrosion/irritation			
Irritation Corrosion - S RICOH / Nashuatec / R MP 2014 (Black toner)	Skin: P.I.I. value ex-Rotary / Gestetner Toner	Result: Non-irritant Species: Rabbit	
Serious eye damage/eye irritation	Not available.		
Respiratory sensitisation	Not available.		
	Not available.		

Skin sensitisation RICOH / Nashuatec / Rex-Rotary / Gestetner Toner MP 2014 (Black toner) Germ cell mutagenicity		Result: Non-skinsensitive Species: Marmott
Germ cell mutagenicity: Ames test RICOH / Nashuatec / Rex-Rotary / Gestetner Toner MP 2014 (Black toner)		Result: Negative Notes: Ames test
Carcinogenicity	inadequate human evidence, inhalation study for a toner con toner exposure and tumour de changed. Titanium dioxide cor of inhalation test in use of rat. But oral/skin test does not sho In the animal experiment with rat's lungs clearance mechani Under a normal use practice, f assumed that there is no such Also, relation between respira with epidemiological survey. O classified to Group 2B of IARO But oral/skin test does not sho The toner containing carbon b in use of rat. In the animal experiment with rat's lungs clearance mechani Under a normal use practice, f assumed that there is no such	very high concentration of titanium dioxide (excessive burden of sm (overload phenomenon)), the rat alone showed lung tumor. the concentration should be far lower than the above; and it is use. tory disease and work exposure of titanium dioxide is not observed Carbon black and titanium dioxide contained in this product are C as the result of inhalation test in use of rat. we carcinogenicity. Jack did not show carcinogenicity in chronic inhalation exposure test very high concentration of titanium dioxide (excessive burden of sm (overload phenomenon)), the rat alone showed lung tumor. the concentration should be far lower than the above; and it is
Reproductive toxicity	Not available.	
Specific target organ toxicity - single exposure	Not available.	
Specific target organ toxicity - repeated exposure	Not available.	
Aspiration hazard	Not available.	
Mixture versus substance information	Not available.	
Other information	Not available.	
SECTION 12: Ecological information		

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12.1. Toxicity	This material is not expected to be harmful to aquatic life.
12.2. Persistence and degradability	Not available.
12.3. Bioaccumulative potential	Not available.
Partition coefficient n-octanol/water (log Kow)	Not available.
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.
EU waste code	Not available.
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.

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.

ΙΑΤΑ

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk Not available according to Annex II of 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 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 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 Not listed

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

National regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Not available. Not available. 15.2. Chemical safety

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 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.