

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

1.1. Product identifier

Trade name or designation of the mixture Pro Toner 8300S (Black toner)

Registration number -

Synonyms None.

SDS No. 828554

Issue date 15-December-2021

Version number 04

Revision date 25-January-2023

Supersedes date 23-January-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

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

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Polyester Resin	>80	Confidential	Confidential	-	

Classification: -

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Carbon Black	1 - 15	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	8015-86-9 232-399-4	Exempt	-	
Classification: -					
Titanium dioxide	<1	13463-67-7 236-675-5	01-2119489379-17-xxxx	022-006-002	#
Classification: Carc. 2;H351					

List of abbreviations and symbols that may be used above

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

Composition comments This product does not contain any of the following RoHS substances as ingredients. Cadmium, Hexavalent Chromium, Mercury, Lead, Polybrominated biphenyls (PBB), Polybrominated diphenylethers (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 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 media Water. Foam. Dry chemicals. Carbon dioxide (CO₂).
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.
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)			
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

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.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.

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

Appearance

Physical state Solid.

Form Powder.

Colour Black.

Odour Slighly plastic odour

Odour threshold Not available

pH Not applicable

Melting point/freezing point Not available.

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	
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	Not available.
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	1.20 g/cm3
Flammability	Not flammable
Softening point	100 °C (212 °F)

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	None under normal conditions.
10.6. Hazardous decomposition products	At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

General information	Not available.
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Information on likely routes of exposure

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

Symptoms	Not available.
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11.1. Information on toxicological effects

Acute toxicity

Product	Species	Test Results
Pro Toner 8300S (Black toner)		
<u>Acute</u>		
Oral		
LD50	Rat	>= 5000 mg/kg

Skin corrosion/irritation

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

Pro Toner 8300S (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****Skin Sensitisation**

Pro Toner 8300S (Black toner)

0 %

Species: Marmott

Notes: Based on other product test results of similar ingredients.

Germ cell mutagenicity**Germ cell mutagenicity: Ames test**

Pro Toner 8300S (Black toner)

Result: Negative

Notes: Ames test

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. Titanium dioxide 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 Titanium dioxide from this product. Therefore, this product powdered Titanium dioxide is not released into the air. No carcinogenicity has been observed when ingested through the mouth or skin.

IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium dioxide (CAS 13463-67-7)

2B Possibly carcinogenic to humans.

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.**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.**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** 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. Transport in bulk Not applicable.
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

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

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.

Other EU regulations

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

Not listed.

Other regulations

Not available.

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
• 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

H351 Suspected of causing cancer by inhalation.

Revision information

Product and Company Identification: Alternate Trade Names
Composition / Information on Ingredients: Ingredients
SECTION 9: Physical and chemical properties: Form
Regulatory Information: Regulatory Information
HazReg Data: Pacific Rim

Training information

Not available.

Disclaimer

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