

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product name	: Cyan Toner for FS-C5300DN, C5350DN, ECOSYS P6030cdn	
Consumable name	: TK-560C	
Product form	: Mixture	
1.2. Relevant identified u	uses of the substance or mixture and uses advised against	
Identified uses	: The image formation of our electrophotographic equipments.	
	Other uses are not recommended.	
1.3. Details of the suppli	er of the safety data sheet	
Manufacturer	: KYOCERA Document Solutions Inc.	
Address	: 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan	
Supplier	: KYOCERA Document Solutions Europe B.V.	
Address	: Bloemlaan 4, 2132 NP Hoofddorp, The Netherlands	
Telephone number	: +31(0)20-6540000	
E-mail	: msds@deu.kyocera.com	
1.4. Emergency telephor	ne number	
	. For expertises, places, contact each cale site during office hours	

: For safety questions, please contact each sale site during office hours.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

: Not classified as hazardous mixture.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

: Not applicable.

2.3. Other hazards

Assessment of PBT/vPvB : No data available. See section 4 and 11 for information on health effects and symptoms. See section 9 for dust explosion information.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	Identifier	Weight%	
	CAS No.		
Polyester resin (2 kinds)	Confidential	75-85	
Organic pigment	Confidential	1-5	
Amorphous silica	7631-86-9	1-5	
Titanium dioxide	13463-67-7	< 1	



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Information of Ingredients			
(1) Substance which present a health or environmental hazard within the meaning of CLP			
: None.			
(2) Substance which are assigned Community workplace exposure limits			
	: None.		
(3) Substance which are Pl	(3) Substance which are PBT or vPvB in accordance with the criteria set out in Annex XIII of REACH		
: None.			
(4) Substance which are ine	cluded in the list established in accordance with Article 59(1) of REACH (SVHC)		
	: None.		
See section 16 for the full to	ext of the H statements declared above.		
SECTION 4: First aid m			
4.1. Description of first ai			
Inhalation	: Remove from exposure to fresh air and gargle with plenty of water.		
	Consult a doctor in case of such symptoms as coughing.		
Skin Contact	: Wash with soap and water.		
Eye Contact	: Flush with water immediately and see a doctor if irritating.		
Ingestion	: Rinse out the mouth. Drink one or two glasses of water to dilute.		
	Seek medical treatment if necessary.		
	otoms and effects, both acute and delayed		
Potential health effects and			
Inhalation	: Prolonged inhalation of excessive dusts may cause lung damage.		
	Use of this product as intended does not result in prolonged inhalation of excessive toner dusts.		
Skin contact	: Unlikely to cause skin irritation.		
Eye contact	: May cause transient eye irritation.		
Ingestion	: Use of this product as intended does not result in ingestion.		
4.3. Indication of any imm	nediate medical attention and special treatment needed		
-	: No additional information available.		

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray, foam, powder, CO ₂ or dry chemical.	
Unsuitable extinguishing media	: None specified.	
5.2. Special hazards arising from the substance or mixture		
Hazardous combustion products	: Carbon dioxide. Carbon monoxide.	
5.3. Advice for firefighters		
Fire-fighting procedures	: Pay attention not to blow away dust.	
	Drain water off around and decrease the atmosphere temperature to extinguish the fire.	
Protective equipment for firefighters	: None specified.	



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SECTION 6: Accidental release measures

6.1. Personal	precautions,	protective	equipment and	d emergency	procedures
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- : Avoid inhalation, ingestion, eye and skin contact in case of accidental release.
- Avoid formation of dust. Provide adequate ventilation.

6.2. Environmental precautions

: Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Method for cleaning up : Gather the released powder not to blow away and wipe up with a wet cloth.

6.4. Reference to other sections

See section 13 for disposal information.

7.1. Precautions for sa	afe handling : Do not attempt to force open or destroy the toner container or unit.
	See installation guide of this product.
7.2. Conditions for sa	fe storage, including any incompatibilities
	: Keep the toner container or unit tightly closed and store in a cool, dry and dark place keeping away from fire. Keep out of the reach of children.
7.3. Specific end use(s)
	: No additional information available.

(Reference data)

US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m³ (Inhalable particles), 3 mg/m³ (Respirable particles) Titanium dioxide: 10 mg/m³

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust), 5 mg/m³ (Respirable fraction) Amorphous silica: 80 mg/m³/%SiO₂ Titanium dioxide: 15 mg/m³ (Total dust)

EU Occupational exposure limits : Directive 2000/39/EC, 2006/15/EC and 2009/161/EU Not listed.

8.2. Exposure controls

Appropriate engineering controls	: Special ventilator is not required under normal intended use.
	Use in a well ventilated area.
Personal protective equipment	 Respiratory protection, eye protection, hand protection, skin and body protection are not required under normal intended use.
Environmental exposure controls	: No additional information available.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Appearance	
Physical state	: Solid.
	(Fine powder)
Color	: Cyan.
Odor	: Odorless.
Odor threshold	: No data available.
рН	: No data available.
Melting point	: 100-120 °C (Toner)
Boiling point	: No data available.
Flash point	: No data available.
Evaporation rate	: No data available.
Flammability (solid, gas)	: No data available.
Upper/lower flammability or explosive limits	: No data available.
Vapour pressure	: No data available.
Vapour density	: No data available.
Relative density	: 1.2-1.4 g/cm³ (Toner)
Solubility(ies)	: Almost insoluble in water.
Partition coefficient: n-octanol/water	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity	: No data available.
Explosive properties	: No data available.
Oxidising properties	: No data available.
9.2. Other information	
Dust explosion properties : Dust exp	plosion is improbable under normal intended use.
Experim	nental explosiveness of toner is classified into the s

Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to the pressure rising speed.

SECTION 10: Stability and reactivity		
10.1. Reactivity	: No data available.	
10.2. Chemical stability	: This product is stable under normal conditions of use and storage.	
10.3. Possibility of hazardous reactions		
	: Hazardous reactions will not occur.	
10.4. Conditions to avoid	: None specified.	
10.5. Incompatible materials	: None specified.	
10.6. Hazardous decomposition products		
	: Hazardous decomposition products are not to be produced.	



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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Based on available data, the classification criteria listed below are not met.

Acute toxicity	
Oral (LD ₅₀)	: > 2000 mg/kg (rat)
	(Based on test result of similar product.) (Toner)
Dermal (LD ₅₀)	: No data available.
	(Toner)
Inhalation (LC ₅₀ (4hr))	: > 4.98 mg/l (rat) [This value is the maximum attainable concentration for dust.]
·····alation (2050 (····))	(Based on test result of similar product.) (Toner)
Skin corrosion/irritation	
Acute skin irritation	: Mild irritant (rabbit)
	(Based on test result of similar product.) (Toner)
Serious eye damage/irritation	
Acute eye irritation	: Minimal irritant (rabbit)
-	(Based on test result of similar product.) (Toner)
Respiratory or skin sensitisati	on
Skin sensitisation	: Non-sensitiser (mouse)
	(Based on test result of similar product.) (Toner)
Germ cell mutagenicity	
G y	: Ames Test is Negative.
	(Based on test result of constituent materials.) (Toner)
Information of Ingredients	: No mutagen, according to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.
Carcinogenicity	. No mutagen, according to MAR, TRG5905 and (EC) No 1272/2008 Annex VI.
Information of Ingredients	: No carcinogen or potential carcinogen according to IARC, Japan Association on
	Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65,
	TRGS 905 and (EC) No 1272/2008 Annex VI.
(except titanium dioxide)	

The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possibly carcinogenic to humans) as the result of inhalation exposure test in rats. But, oral/skin test does not show carcinogenicity. (*2) In the animal chronic inhalation studies for titanium dioxide, the lung tumor was observed in only rats. It is estimated that this is attributed to the overload of rat's lung clearance mechanism (overload phenomenon). (*3) The inhalation of excessive titanium dioxide dose not occur in normal use of this product. Also, epidemiological studies to date have not revealed any evidence of the relation between occupational exposure to titanium dioxide and respiratory tract diseases.



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Reproductive toxicity	
Information of Ingredients	: No reproductive toxicant according to MAK, California Proposition 65, TRGS905 and (EC) No 1272/2008 Annex VI.
STOT-single exposure	: No data available.
STOT-repeated exposure	: No data available.
Aspiration hazard	: No data available.
Chronic effects	 In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16 mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4 mg/m³) exposure group. (*1) But no pulmonary change was reported in the lowest (1 mg/m³) exposure group, the most relevant level to potential human exposures.
Other information	: No data available.
SECTION 12: Ecological in	nformation
12.1. Toxicity	: No data available.
12.2. Persistence and degrad	dability : No data available.
12.3. Bioaccumulative poten	tial : No data available.
12.4. Mobility in soil	: No data available.
12.5. Results of PBT and vPv	vB assessment
	: No data available.
12.6. Other adverse effects	: No additional information available.
SECTION 13: Disposal co 13.1. Waste treatment metho	

: Do not attempt to incinerate the toner container or unit and the waste toner yourself.

Dangerous sparks may cause burn. Any disposal practice should be done under conditions which meet local, state and federal laws and regulations relating to waste (contact local or state environmental agency for specific rules).

SECTION 14: Transport information

14.1. UN number	:	None.
14.2. UN proper shipping name	:	None.

- **14.3. Transport hazard class(es)** : None.
- 14.4. Packing group
- **14.5. Environmental hazards** : None.
- **14.6. Special precautions for user** : No additional information available.

: None.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

: Not applicable.



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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 Annex II : Not listed.
Regulation (EC) No 850/2004 on persistent organic pollutants, Annex I as amended : Not listed.
Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals, Annex I and Annex V as amended
: Not listed.
Regulation (EC) No 1907/2006, REACH Annex XVII as amended (Restrictions on use) : Not listed.
Regulation (EC) No 1907/2006, REACH Annex XIV as amended (Authorisations) : Not listed.
US regulations
All ingredients in this product comply with order under TSCA.
Canada regulations
This product is not a WHMIS-controlled product, since we consider it as a Manufactured article.
15.2 Chamical asfaty assassment

15.2. Chemical safety assessment

: No data available.

SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, Annex II as amended by Regulation (EU) No 453/2010 with respect to SDSs.

Revision information	:	Format change.		
Version	:	05		
Full text of H statements under sections 3.				
	:	Not applicable.		
Abbreviations and acronyms				
PBT	:	Persistent, Bioaccumulative and Toxic		
vPvB	:	Very Persistent and Very Bioaccumulative		
SVHC	:	Substances of Very High Concern		
CAS		Chemical Abstracts Service		
ACGIH	:	American Conference of Governmental Industrial Hygienists		
		2010 TLVs and BEIs (Threshold Limit Values for Chemical Substances and		
		Physica Agents and Biological Exposure Indices)		
OSHA	:	Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)		
TWA	:	Time Weighted Average		
PEL	:	Permissible Exposure Limits		
UN	:	United Nations		
IARC	:	International Agency for Research on Cancer		
		(IARC Monographs on the Evaluations of Carcinogenic Risks to Humans)		
EPA	:	Environmental Protection Agency (Integrated Risk Information System) (US)		
NTP	:	National Toxicology Program (Report on Carcinogens) (US)		
МАК	:	Maximale Arbeitsplatz-Konzentrationen (List of MAK and BAT Values 2011) (DFG: Deutsche Forschungsgemeinschaft)		
Proposition 65	:	California, Safe Drinking Water and Toxic Enforcement Act of 1986		
TRGS905		Technische Regeln für Gefahrstoffe (Deutschland)		



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TSCA	: Toxic Substances Control Act (US)
WHMIS	: Workplace Hazardous Materials Information System (Canada)
REACH	: Regulation (EC) No 1907/2006 concerning the Registration, Evaluation,
	Authorisation and Restriction of Chemicals
CLP	: Regulation (EC) No 1272/2008 on classification, labelling and packaging of
	substances and mixtures

Key literature references and sources for data

(*1) 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)

(*2) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.93

(*3) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"