

SAFETY DATA SHEET

SECTION 1: Identification Product identifier	on of the substance/mixture and of the company/undertaking		
Product name	: Black Toner for ECOSYS P6230cdn, M6230cidn, M6630cidn		
Consumable name	: TK-5274K		
Relevant identified uses of the substance or mixture and uses advised against			
Identified uses	: The image formation of our electrophotographic equipments.		
	Other uses are not recommended.		
Details of the supplier 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 Australia Pty. Ltd.		
Address	: Level 3, Quarter One, 1 Epping Road, North Ryde NSW 2113, Australia		
Telephone number	: +61-2-9888-9999		

Emergency telephone number

: 131 126 (24 hours) Poison Information Centre.

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to GHS under the WHS Regulations

: Not classified as hazardous mixture.

GHS label elements

: Not applicable.

Other hazards

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

Chemical name	Identifier	Weight%	
	CAS No.		
Polyester resin	Confidential	70-80	
Carbon black	1333-86-4	5-10	
Styrene acrylate copolymer	Confidential	1-5	
Amorphous silica	7631-86-9	1-5	
Titanium dioxide	13463-67-7	< 1	

Information of Ingredients

See section 8 for the information of occupational exposure limits.





SECTION 4: First aid measures

SDS No.: TK5274K-KDAU-02-EN Issue date: 16/11/2017 Revision date: 19/06/2023

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Description of first aid measures				
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.			
Most important sympton	ns and effects, both acute and delayed			
Potential health effects and symptoms				
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.			
Indication of any immediate medical attention and special treatment needed				

: No additional information available.

SECTION 5: Firefighting measures Extinguishing media			
Suitable extinguishing media	: Water spray, foam, powder, CO ₂ or dry chemical.		
Unsuitable extinguishing media	: None specified.		
Special hazards arising from the substance or mixture			
Hazardous combustion products	: Carbon dioxide. Carbon monoxide.		
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.		

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

: Avoid inhalation, ingestion, eye and skin contact in case of accidental release. Avoid formation of dust. Provide adequate ventilation.

Environmental precautions

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

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.



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SECTION 7: Handling and storage

Precautions for safe handling

- : Do not attempt to force open or destroy the toner container or unit.
 - See installation guide of this product.

Conditions for safe 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.

SECTION 8: Exposure controls/personal protection

Control parameters

(Reference data)

US ACGIH TLV (TWA)

Particles: 10 mg/m^{*} (Inhalable particles), 3 mg/m^{*} (Respirable particles) Carbon black: 3 mg/m^{*} (Inhalable fraction) Titanium dioxide: 10 mg/m^{*}

US OSHA PEL (TWA)

Particles: 15 mg/m (Total dust), 5 mg/m (Respirable fraction) Carbon black: 3.5 mg/m Amorphous silica: 80 mg/m³/%SiO₂ Titanium dioxide: 15 mg/m (Total dust)

Australian exposure standards : Workplace Exposure Standards for Airborne Contaminants, Appendix A

Carbon black: TWA 3 mg/m³ Titanium dioxide: TWA 10 mg/m³

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.



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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

F	Physical state	:	Solid.	
			(Fine powder)	
(Color	:	Black.	
Od	or	:	Odorless.	
Od	or threshold	:	No data available.	
pН		:	No data available.	
Me	Iting point	:	100-120 °C	(Toner)
Init	ial boiling point and boiling range	:	No data available.	
Fla	sh point	:	No data available.	
Eva	aporation rate	:	No data available.	
Fla	mmability (solid, gas)	:	No data available.	
Up	per/lower flammability or explosive	:	No data available.	
lim	its			
Va	pour pressure	:	No data available.	
Va	pour density	:	No data available.	
Re	lative density	:	1.2-1.4 g/cmႆ	(Toner)
So	lubility(ies)	:	Almost insoluble in	water.
Pa	rtition coefficient: n-octanol/water	:	No data available.	
Au	to-ignition temperature	:	No data available.	
De	composition temperature	:	No data available.	
Vis	cosity	:	No data available.	
Ex	plosive properties	:	No data available.	
Ox	idising properties	:	No data available.	
Otl	her information			
Du	st explosion properties : Dust exp	lo	sion is improbable ur	nder normal intended u
	Experime	en	tal explosiveness of	toner is classified into

Dust explosion is improbable under normal intended use. 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	
Reactivity	: No data available.
Chemical stability	: This product is stable under normal conditions of use and storage.
Possibility of hazardous reactions	: Hazardous reactions will not occur.
Conditions to avoid	: None specified.
Incompatible materials	: None specified.
Hazardous decomposition products	: Hazardous decomposition products are not to be produced.



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SECTION 11: Toxicological information

Information on toxicological effects

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))	: > 5.0 mg/l (rat) (Based on test result of similar product.) (Toner)			
Skin corrosion/irritation	(Based on test result of similar product.) (Toher)			
Acute skin irritation	: Non-irritant (rabbit)			
	(Based on test result of similar product.) (Toner)			
Serious eye damage/irritatio				
Acute eye irritation	: Minimal irritant (rabbit)			
Addie Cyc initiation	(Based on test result of similar product.) (Toner)			
Respiratory or skin sensitisa				
Skin sensitisation	: Non-sensitiser (mouse)			
	(Based on test result of similar product.) (Toner)			
Germ cell mutagenicity				
jjjjj	: Ames Test is Negative.			
	(Toner)			
Information of Ingradiants	: No mutagen, according to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.			
Carcinogenicity	. No mulagen, according to WAR, TRGS905 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 carbon black and	,			
	bon black and 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) The evaluation of carbon black is based upon the development of lung tumors in rat receiving chronic inhalation				
exposures to free carbon black at level that induce particle overload of the lung.				
•	animal models other than rats have not demonstrated an association between carbon			
black and lung tumors. Moreover, a two-years cancer bioassay using a typical toner preparation containing				
carbon black demonstrated no association between toner exposure and tumor development in rats. (*1)				
	ation studies for titanium dioxide, the lung tumor was observed in only rats. It is uted to the overload of rat's lung clearance mechanism (overload phenomenon). (*3)			
	e titanium dioxide does not occur in normal use of this product. Also, epidemiological			

The inhalation of excessive titanium dioxide does 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	information		
Ecotoxicity	: No data available.		
Persistence and degradabil	•		
Bioaccumulative potential	: No data available.		
Mobility in soil	: No data available.		
Other adverse effects	: No additional information available.		
SECTION 13: Disposal co	onsiderations		
Waste treatment methods	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 i			
UN number	: None.		
UN proper shipping name	: None.		

Transport hazard class(es)	: None.	
Packing group	: None.	
Environmental hazards	: None.	
Special precautions for user	: No additional information available.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		
	: Not applicable.	

SECTION 15: Regulatory information

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

EU regulations

This product is not classified as hazardous mixture according to Regulation (EC) No 1272/2008 (CLP).



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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 Model Code of Practice for Preparation of Safety Data Sheets for Hazardous Chemicals.

Revision information		Update of the Revision date.
Version		02
Issue date	-	16/11/2017
Revision date		19/06/2023
Abbreviations and acronyms	•	13/00/2023
GHS		Globally Harmonized System of Classification and Labelling of Chemicals
CAS		Chemical Abstracts Service
WHS		Work Health and Safety (Australia)
ACGIH	:	American Conference of Governmental Industrial Hygienists
		2016 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)
TLV		Threshold Limit Values
PEL		Permissible Exposure Limits
TWA		Time Weighted Average
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)
STOT		Specific target organ toxicity
TSCA		Toxic Substances Control Act (US)
WHMIS		Workplace Hazardous Materials Information System (Canada)
CLP	•	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
Key literature references and	so	

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"