

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking Product identifier		
Product name	: Black Toner for TASKalfa MA4500ci	
Consumable name	: TK-5419K	
Relevant identified uses of	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 CAS No.	Weight%
Polyester resin (3 kinds)	Confidential	80-90
Carbon black	1333-86-4	3-8
Wax	Confidential	3-8
Amorphous silica	7631-86-9	1-2
Aluminium compound	1344-28-1	< 1

Information of Ingredients

See section 8 for the information of occupational exposure limits.





SECTION 4: First aid measures

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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 symptoms	and effects, both acute and delayed	
Potential health effects and s	/mptoms	
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	e 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 substa	ance 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.

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Environmental precautions
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: 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/m³ (Inhalable particles), 3 mg/m³ (Respirable particles) Carbon black: 3 mg/m³ (Inhalable fraction) Aluminium insoluble compounds : 1 mg/m³ (Respirable fraction)

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/m /%SiO2

Australian exposure standards : Workplace Exposure Standards for Airborne Contaminants, Appendix A Carbon black: TWA 3 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

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Physical state	:	Solid.	
		(Fine powder)	
Color	:	Black.	
Odor	:	Odorless.	
Odor threshold	:	No data available.	
рН	:	No data available.	
Melting point	:	100-120 °C	(Toner)
Initial boiling point and boiling range	:	No data available.	
Flash point	:	No data available.	
Evaporation rate	:	No data available.	
Flammability (solid, gas)	:	No data available.	
Upper/lower flammability or explosive	:	No data available.	
limits			
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.	
Other information			
Dust explosion properties : Dust exp	olo	sion is improbable u	nder normal intended
Experime	en	tal explosiveness of	toner is classified into

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.

use.

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.		



(Toner)

(Toner)

(Toner)

(Toner)

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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.)	
Dermal (LD ₅₀)	: > 2000 mg/kg (rat)	
	(Based on test result of similar product.)	
Inhalation (LC_{50} (4hr))	: > 5.09 mg/l (rat) (Based on test result of similar product.)	
Skin corrosion/irritation		
Acute skin irritation	: Non-irritant (rabbit)	
	(Based on test result of similar product.)	

Serious eye damage/irritati	on
Acute eye irritation	: Minimal irritant (rabbit)
	(Based on test result of similar product.) (Toner)
Respiratory or skin sensitis	ation
Skin sensitisation	: Non-sensitiser (mouse)
	(Based on test result of similar product.) (Toner)

Germ cell mutagenicity		
	:	А

: Ames Test is Negative. (Toner)

Information of Ingredients Carcinogenicity	:	No mutagen, according to MAK, 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)

The IARC reevaluated carbon black 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.

The studies performed in 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)



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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 degradabi	lity : No data available.
Bioaccumulative potential	: No data available.
Mobility in soil	: No data available.
Other adverse effects	: No additional information available.
SECTION 13: Disposal c	
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	information
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		-
Version	-	01
Issue date	-	26/12/2022
Revision date		-
Abbreviations and acronyms	•	
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)
MAK	:	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 sources for data		

Key literature references and sources for data
(*1) Pulmonary Posponso to Topor upon Chronic Inhalation Ev

(*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"