

SDS No.: TK8519K-KDAU-04-EN Issue date: 23/06/2016 Revision date: 30/10/2023

SAFETY DATA SHEET

SECTION 1: Identificati Product identifier	ion of the substance/mixture and of the company/undertaking
Product name	: Black Toner for TASKalfa 5052ci, 6052ci, 5053ci, 6053ci
Consumable name	: ТК-8519К
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, 1 Epping Road, North Ryde, New South Wales 2113, Australia
Telephone number	: +61-2-9888-9999
Emergency telephone nu	mber

: 131 126 (24 hours) Poison Information Centre.

SECTION 2: Hazards identification			
Classification of the substance or mixture			
Classification according to GHS under the WHS Re	egulations		
Not classified as h	azardous mixture.		
GHS label elements			
Not applicable.			
Other hazards			
See section 4 and 11 for information on health effe	cts and symptoms.		
See section 9 for dust explosion information.			
SECTION 3: Composition/information on in	ngredients		
Substance or Mixture: Mixture	0		
Chemical name	Identifier	Weight%	
	CAS No.		

	CAS No.	
Polyester resin (3 kinds)	Confidential	70-80
Ferrite (Ferrite including manganese)	66402-68-4	5-10 (as Mn: < 2)
Carbon black	1333-86-4	3-8
Amorphous silica	7631-86-9	1-5
Titanium dioxide	13463-67-7	1-5

Information of Ingredients

See section 8 for the information of occupational exposure limits.



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SECTION 4: Firs	t aid measures	
Description of firs	t 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 sy	mptoms and effects, both acute and delayed	
Potential health effe	ects 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 i	mmediate medical attention and special treatment needed	
	: No additional information available.	

SECTION 5: Firefighting measures	S
Extinguishing media	
Suitable extinguishing media	: Water spray, foam, powder, CO ₂ or dry chemical.
Unsuitable extinguishing media	: None specified.
Special hazards arising from the subs	stance 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/m³ (Inhalable particles), 3 mg/m³ (Respirable particles)

Manganese inorganic compounds (Ferrite component): 0.1 mg/m³ (Inhalable fraction), 0.02 mg/m³ (Respirable fraction) (as Mn) Carbon black: 3 mg/m³ (Inhalable fraction)

Titanium dioxide: 10 mg/m³

US OSHA PEL (TWA)

Particles: 15 mg/m² (Total dust), 5 mg/m² (Respirable fraction) Manganese compounds (Ferrite component): 5 mg/m³ (Ceiling) (as Mn) Carbon black: 3.5 mg/m³ Amorphous silica: 80 mg/m³/%SiO₂ Titanium dioxide: 15 mg/m³ (Total dust) Australian exposure standards : Workplace Exposure Standards for Airborne Contaminants, Appendix A Manganese compounds (Ferrite component): TWA 1 mg/m³ (as Mn) 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

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Appearance	
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/cm ³ (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	
-	plosion is improbable under normal inte
Experim	ental explosiveness of toner is classifie

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 reactivit	у
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 (LD₅₀) :> 2000 mg/kg (rat)

Oral (LD ₅₀)		 > 2000 mg/kg (rat) (Based on test result of similar product.) (Toner) > 2000 mg/kg (rat) (Based on test result of constituent materials.) (Carrier)
Dermal (LD ₅₀)		No data available. (Toner) No data available.
		(Carrier)
Inhalation (LC ₅₀ (4hr))	:	> 5.09 mg/l (rat)
		(Based on test result of similar product.) (Toner)
Skin corrosion/irritation		
Acute skin irritation		Non-irritant (rabbit)
		(Based on test result of similar product.) (Toner)
		Non-irritant (rabbit)
		(Based on test result of constituent materials.) (Carrier)
Serious eye damage/irritation		
Acute eye irritation	1	Mild irritant (rabbit)
		(Based on test result of similar product.) (Toner)
Respiratory or skin sensitisat		
Skin sensitisation	:	Non-sensitiser (mouse) (Based on test result of similar product.) (Toner) Non-sensitiser (Based on test result of constituent materials.) (Carrier)
Germ cell mutagenicity		
	:	Ames Test is Negative. (Based on test result of constituent materials.) (Toner) Ames Test is Negative. (Based on test result of constituent materials.) (Carrier)
Information of Ingredients	3	No mutagen, according to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.
Carcinogenicity		
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 titanium dioxide)

The IARC reevaluated carbon 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.

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) 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/m ³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4 mg/m ³) exposure group. (*1) But no pulmonary change was reported in the lowest (1 mg/m ³) 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	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 co	
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 environmenta agency for specific rules).
SECTION 14: Transport i	nformation
UN number	: None.
UN proper shipping name	: None.
UN proper shipping name Transport hazard class(es)	
Transport hazard class(es)	None.
Transport hazard class(es) Packing group	None. None. None.
Transport hazard class(es) Packing group Environmental hazards Special precautions for use	None. None. None.

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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).

This product does not contain substances which present a health or environmental hazard within the meaning of 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	÷	SECTION 1 (Product name).
Version	:	03
Issue date	•	23/06/2016
Revision date	1	19/10/2018
Abbreviations and acronyms		
GHS	:	Globally Harmonized System of Classification and Labelling of Chemicals
CAS	1	Chemical Abstracts Service
WHS		Work Health and Safety (Australia)
ACGIH	2	American Conference of Governmental Industrial Hygienists
		2016 TLVs and BEIs (Threshold Limit Values for Chemical Substances and
		Physica Agents and Biological Exposure Indices)
OSHA	2	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	Ę.	Environmental Protection Agency (Integrated Risk Information System) (US)
NTP	ŝ	National Toxicology Program (Report on Carcinogens) (US)
MAK	1	Maximale Arbeitsplatz-Konzentrationen (List of MAK and BAT Values 2011)
		(DFG: Deutsche Forschungsgemeinschaft)
Proposition 65	ŝ.	California, Safe Drinking Water and Toxic Enforcement Act of 1986
TRGS905	ŝ	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 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"