

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1. Product identifier				
Product name	: Black Toner for TASKalfa 3050ci, 3550ci, 3051ci, 3551ci			
Consumable name	: TK-8305K			
Product form	: Mixture			
1.2. 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.			
1.3. Details of the supplie	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 telephone number				
_ •	· For sofety questions, 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	Confidential	65-75		
Carbon black	1333-86-4	5-10		
Ferrite (Ferrite including manganese)	66402-68-4	1-10 (as Mn: < 2)		
Amorphous silica	7631-86-9	1-5		
Titanium dioxide	13463-67-7	< 1		



SAFETY DATA SHEET

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					
: Water spray, foam, powder, CO ₂ or dry chemical.					
: None specified.					
5.2. Special hazards arising from the substance or mixture					
: Carbon dioxide. Carbon monoxide.					
: Pay attention not to blow away dust.					
Drain water off around and decrease the atmosphere temperature to extinguish the fire.					
: None specified.					



SAFETY DATA SHEET

SECTION 6: Accidental release measures

6.1. Personal	precautions,	protective equipment an	d emergency procedures
---------------	--------------	-------------------------	------------------------

- : 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.

SECTION 7: Handling and stora 7.1. Precautions for safe handling	ige
•	not attempt to force open or destroy the toner container or unit.
	installation guide of this product.
7.2. Conditions for safe storage, in	
	the toner container or unit tightly closed and store in a cool, dry and dark
	e keeping away from fire. Keep out of the reach of children.
7.3. Specific end use(s)	
	additional information available.
SECTION 8: Exposure controls	/personal protection
8.1. Control parameters	
(Reference data)	
US ACGIH Threshold Limit Values (,
Particles: 10 mg/m (Inhalable partic	eles), 3 mg/m (Respirable particles)
Carbon black: 3.5 mg/m ³	
Manganese compounds (Ferrite co	pmponent): 0.2 mg/m³ (as Mn)
Titanium dioxide: 10 mg/m ³	
US OSHA PEL (TWA)	
Particles: 15 mg/m (Total dust), 5 m	g/m (Respirable fraction)
Carbon black: 3.5 mg/m ³	
Manganese compounds (Ferrite co	pmponent): 5 mg/m³ (Ceiling) (as Mn)
Manganese compounds (Ferrite co Amorphous silica: 80 mg/m³/%SiO₂	
Manganese compounds (Ferrite co Amorphous silica: 80 mg/m³/%SiO 2 Titanium dioxide: 15 mg/m³ (Total du	ust)
Manganese compounds (Ferrite co Amorphous silica: 80 mg/m³/%SiO₂ Titanium dioxide: 15 mg/m³ (Total do EU Occupational exposure limits : Dir	
Manganese compounds (Ferrite co Amorphous silica: 80 mg/m³/%SiO 2 Titanium dioxide: 15 mg/m³ (Total du EU Occupational exposure limits : Diu Not listed.	ust)
Manganese compounds (Ferrite co Amorphous silica: 80 mg/m³/%SiO ₂ Titanium dioxide: 15 mg/m³ (Total du EU Occupational exposure limits : Diu Not listed. 8.2. Exposure controls	ust) rective 2000/39/EC, 2006/15/EC and 2009/161/EU
Manganese compounds (Ferrite co Amorphous silica: 80 mg/m³/%SiO ₂ Titanium dioxide: 15 mg/m³ (Total du EU Occupational exposure limits : Dir	ust)
Manganese compounds (Ferrite co Amorphous silica: 80 mg/m³/%SiO ₂ Titanium dioxide: 15 mg/m³ (Total du EU Occupational exposure limits : Diu Not listed. 8.2. Exposure controls	ust) rective 2000/39/EC, 2006/15/EC and 2009/161/EU : Special ventilator is not required under normal intended use.



SAFETY DATA SHEET

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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)
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	1			
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 produc	ts			
	: Hazardous decomposition products are not to be produced.			



SAFETY DATA SHEET

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)
		> 2500 mg/kg (rat)
Dermal (LD ₅₀)		(Based on test result of constituent materials.) (Carrier) No data available.
	•	(Toner)
		> 2000 mg/kg (rat)
		(Based on test result of constituent materials.) (Carrier)
Inhalation (LC ₅₀ (4hr))	:	> 5.0 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		Minimal instant (rakkit)
Acute eye irritation	•	Minimal irritant (rabbit) (Based on test result of similar product.) (Toner)
Respiratory or skin sensitisati	or	
Skin sensitisation		Non-sensitiser (mouse)
		(Based on test result of similar product.) (Toner)
		Non-sensitiser (guinea pig)
		(Based on test result of constituent materials.) (Carrier)
Germ cell mutagenicity		
	:	Ames Test is Negative.
		(Toner)
		Ames Test is Negative.
Information of Ingradianta		(Based on test result of constituent materials.) (Carrier)
Information of Ingredients Carcinogenicity	•	No mutagen, according to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.
u .		No correinagen er notential correinagen according to IABC Japan Accordition on
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.



SAFETY DATA SHEET

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
12.1. Toxicity	: No data available.
12.2. Persistence and degra	adability : No data available.
12.3. Bioaccumulative pote	ential : No data available.
12.4. Mobility in soil	: No data available.
12.5. Results of PBT and vF	PVB assessment
12.5. Results of PBT and vF	PVB assessment : No data available.

13.1. 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

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

- : None. 14.3. Transport hazard class(es)
- 14.4. Packing group
- : None. 14.5. Environmental hazards

: No additional information available. 14.6. Special precautions for user

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

: None.

: Not applicable.



SAFETY DATA SHEET

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 safety 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.

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)			
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)			



SAFETY DATA SHEET

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"