



according to Regulation (EC) No 1907/2006 (REACH)

SDS Number: CK8514C-TA-UT-03-EN

03

Revision date: 09/01/2019

Version:

Issue date:	23/06/2016
Effective date:	09/01/2019
Replace version:	02

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier	
	Product name	Cyan Toner for
		5006ci, 6006ci, 5007ci, 6007ci
	Consumable name	CK-8514C
	Product form	Mixture
1.2	Relevant identified u	ses of the substance or mixture and uses advised against
	Identified uses	The image formation of our electrophotographic equipment. 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	TA Triumph-Adler GmbH
	Address	Ohechaussee 235 22848 Norderstedt Germany
1.4	Emergency telephon	e number +49 (0) 40 / 528490
		(This number is available only during office hours)
SECTI	<b>ON</b> 2: Hazards identif	ication
2.1	Classification of the	substance or mixture
	Classification accord	ding 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/v	PvB
		No data available.
		for information on health effects and symptoms. explosion information.

7		<b>h-Adler</b> Tent Business Dera group company		ORX, IT'S	
	ety Data Sh ding to Regulation	<b>eet</b> on (EC) No 1907/2006 (R	EACH)		
SDS N	umber: CK851	4C-TA-UT-03-EN		Issue date:	23/06/2016
Revisi	on date: 09/01/2	2019		Effective date:	09/01/2019
Versio	on: 03			Replace version:	02
SECTIO	ON 3: Compos	ition/information on in	aredients		
3.2	Mixtures		9		
3.2	Chemical name	0	CAS-No	[Woight %]	
	Polyester resin		confidential	<u>[Weight %]</u> 70-80	
	•	including manganese)	66402-68-4	5-10 (as Mn:<2)	
	Organic Pigme Amorphous sili		confidential 7631-86-9	3-8 1-5	
	Titanium dioxic		13463-67-7	1-5	
	Information of	fingredients			
	(1) Substance,	which present a health	or environmenta	al hazard within the me	aning of CLP:
		None.			
(2) Substance, which are assigned Community workplace exposure limits:					
	None.				
	(3) Substance, which are PBT or vPvB in accordance with the criteria set out in Annex XIII of REACH:				
	None.				
	(4) Substance, which are included in the list established in accordance with Article 59(1) of REACH (SVHC):			rticle 59(1) of	
	None.				
	See section 16	for the full text of the H	statements dec	lared above.	
SECTIO	ON 4: First aid	measures			
4.1	Description of	f first aid measures			
	Inhalation:	Remove from exposure doctor in case of such		d gargle with plenty of voughing.	water. Consult a
	Skin contact:	Wash with soap and w	ater.		
	Eye contact:	Flush with water imme	diately and see	a doctor if irritating.	
	Ingestion:	Rinse out the mouth. I treatment if necessary		glasses of water to dilu	ite. Seek medical
4.2	Most importar	nt symptoms and effec	ts, both acute a	and delayed	
	Potential healt	h effects and symptoms			
	Inhalation:			s may cause lung dam prolonged inhalation of	





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4.2	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 immediate medical attention and special treatment needed No additional information available.

#### SECTION 5: Firefighting measures

<b>F</b> 1	Extinguishing modia
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
	Pay attention not to blow away dust. Drain water off around and decrease the atmosphere temperature to extinguish the fire.
	Protection equipment for firefighters
	None specified.
OFOT	
SECT	ION 6: Accidental release measures

6.1 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.
6.2 Environmental precautions Do not allow to enter into surface water or drains.
6.3 Methods and material for containment and 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.





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## Safety Data Sheet

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SECTION 7: Handling and storage

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7.1 Precautions for safe handling

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

7.2 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.

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7.3 Specific end use(s)

No additional information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m<sup>3</sup> (Inhalable particles) 3 mg/m<sup>3</sup> (Respirable particles) Manganese inorganic compounds (Ferrite component): 0.1 mg/m<sup>3</sup> (Inhalable fraction) 0.02 mg/m<sup>3</sup> (Respirable fraction) (as Mn) Titanium dioxide: 10 mg/m<sup>3</sup> US OSHA PEL (TWA) Particles: 15 mg/m<sup>3</sup> (Total dust) Manganese compounds (Ferrite component): 5 mg/m<sup>3</sup> (Ceiling) (as Mn)

Amorphous silica: 80 mg/m<sup>3</sup>/%SiO<sub>2</sub> Titanium dioxide: 15 mg/m<sup>3</sup> (Total dust) EU Occupational exposure limits: Directive (EC) 2000/39, (EC) 2006/15 and (EU) 2009/161 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

according to Regulation (EC) No 1907/2006 (REACH)

Information on basic physical and chem	nical properties	
Appearance		-
Physical state	Solid (fine powder)	
Colour	Cyan	
Odour	Odourless	
Odour threshold	No data available.	
рН	No data available.	
Melting range [°C]	100-120 (Toner)	
Boiling point [°C]	No data available.	
Flash point [°C]	No data available.	
Evaporation rate	No data available.	
Flammability (solid, gas)	No data available.	
Upper flammability or explosive limit	No data available.	
Lower flammability or explosive limit	No data available.	
Vapour pressure	No data available.	
Vapour density	No data available.	
Relative density [g/m <sup>3</sup> ]	1.2-1.4 (Toner)	
Solubility (ies)	almost insoluble in water.	
Partition coefficient: n-octanol/water	No data available.	
Auto-ignition temperature [°C]	No data available.	
Decomposition temperature [°C]	No data available.	
Viscosity	No data available.	
Explosive properties	No data available.	
Oxidizing properties	No data available.	

#### 9.2 Other information

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.





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### SECTION 10: Stability and reactivity

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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.
0507	

## SECTION 11: Toxicological information

·		
11.1	1.1 Information on toxicological effects	
	Based on available data, the classification criteria listed below are not met.	
	Acute toxicity	
	Oral (LD <sub>50</sub> )	>2000 mg/kg (rat)* (Toner). >2000 mg/kg (rat)** (Carrier).
	Dermal $(LD_{50})$	No data available (Toner). No data available (Carrier).
	Inhalation $(LC_{50}(4hr))$	>5.10 mg/l (rat)*
	Skin corrosion/irritation	
	Acute skin irritation	Non-irritant (rabbit)* (Toner). Non-irritant (rabbit)** (Carrier).
	Serious eye damage/irritatio	'n
	Acute eye irritation	Mild irritant (rabbit)*.
	Respiratory or skin sensitiza	ation
	Skin sensitization	Non-sensitizer (mouse)* (Toner). Non-sensitizer** (Carrier).
1		





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11.1	Germ cell mutagenicity	Ames test is negative** (Toner). Ames test is negative** (Carrier).		
		*(based on test result of similar product) **(based on test result of constituent materials)		
	Information of ingredients:	(,		
	-	to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.		
	Carcinogenicity			
	Information of ingredients:			
	No carcinogen or potential carcinogen (except Titanium dioxide) 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.			
The IARC reevaluated Titanium dioxide as a Group 2B carcinogen (possible humans) as the result of inhalation exposure tests in rats. But, oral/skin test carcinogenicity (2). In the animal chronic inhalation studies for Titanium dio tumor was observed only in rats. It is estimated that this is attributed to the lung clearance mechanism (overload phenomenon) (3). The inhalation of et dioxide does not occur in normal use of this product. Also, epidemiological have not revealed any evidence of the relation between occupational expose dioxide and respiratory tract diseases.		tion exposure tests in rats. But, oral/skin test does not show al chronic inhalation studies for Titanium dioxide, the lung s. It is estimated that this is attributed to the overload of rat's erload phenomenon) (3). The inhalation of excessive Titanium al use of this product. Also, epidemiological studies to date e of the relation between occupational exposure to Titanium		
	Reproductive toxicity			
Information of ingredients:				
	No reproductive toxicat (EC) No 1272/2008 An	nt according to MAK, California Proposition 65, TRGS 905 and nex VI.		
	STOT-single exposure	No data available.		
	STOT-repeated exposure	No data available.		
	Aspiration hazard	No data available.		
	Chronic effects			
	of lung fibrosis was observed ir exposure group, and a minimal middle (4mg/m <sup>3</sup> ) exposure grou	alation exposure to a typical toner, a mild to moderate degree n 92% of the rats in the high concentration (16 mg/m <sup>3</sup> ) to mild degree of fibrosis was noted in 22% of the animal in the up (1). However, no pulmonary change was reported in the up, the most relevant level to potential human exposures.		
	Other information	No data available.		





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### SECTION 12: Ecological information

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12.1	Toxicity
	No data available.
12.2	Persistence and degradability
	No data available.
12.3	Bio accumulative potential
	No data available.
12.4	Mobility in soil
	No data available.
12.5	Results of PBT and vPvB assessment
	No data available.
12.6	Other adverse effects
	No additional information available.

### SECTION 13: Disposal considerations

### 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.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.





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14.5 Environmental hazards

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None.

14.6 Special precautions for user

No additional information available.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

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 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 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 (Authorizations):
	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	Chemical Safety Assessment
	No data available.

	Umph-Adler Document Business A KYOCERA GROUP COMPANY		ORX, IT'S
Safety Da according to F	ta Sheet legulation (EC) No 1907/2006 (REACH)		
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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 Regulation (EC) No 1907/2006, Annex II as amended by Regulation (EU) No 453/2010 with respect to SDSs. Revision information: Section 1 (Product name)			

Revision mormation. Section 1 (Product name)

Full text of H statements under sections 3: Not applicable

Abbreviations and acronyms

ACGIH		American Conference of Governmental Industrial Hygienists (2010)
TLVs ar	nd BEIs	Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
CAS		Chemical Abstracts Service
CLP		Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DFG		Deutsche Forschungsgemeinschaft
EPA		Environmental Protection Agency (Integrated Risk Information System) (USA)
IARC		International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks
		to Humans)
MAK		Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)
NTP		National Toxicology Program (Report on Carcinogens) (USA)
OSHA		Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)
PBT		Persistent, Bio accumulative and Toxic
PEL		Permissible Exposure Limits
Proposi		California, Safe Drinking Water and Toxic Enforcement Act of 1986
REACH		Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of
OTOT		Chemicals
STOT		Specific target organ toxicity
SVHC	005	Substances of Very High Concern
TRGS 9 TSCA	105	Technische Regeln für Gefahrstoffe (Deutschland) Toxic Substances Control Act (USA)
TWA		
UN		Time Weighted Average United Nations
vPvB		
WHMIS		very Persistent and very Bio accumulative Workplace Hazardous Materials Information System (Canada)
VVIIIVII S		Workplace Flazaroous Materials Information System (Canada)
Key lite	erature refe	erences and sources for data
(1)	Pulmona	ry Response to Toner upon Chronic Inhalation Exposure in Rats, H. Muhle et al., Fundamental and Applied
(')		gy 17.280-299 (1991) Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic
		n Exposure in Rats. B. Bellmann, Fundamental and Applied Toxicology 17.300-313 (1991)
(2)		phograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93
(3)		CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational
(0)		e to Titanium Dioxide DRAFT"
(4)		ents are in accordance with Material Safety Data Sheet "CK8514C-TA-UT-03-EN"; 09/01/2019 of the
		A Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.





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# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier		
	Product name	Black Toner for	
		5006ci, 6006ci, 5007ci, 6007ci	
	Consumable name	CK-8514K	
	Product form	Mixture	
1.2	Relevant identified us	ses of the substance or mixture and uses advised against	
	Identified uses	The image formation of our electrophotographic equipment. 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	TA Triumph-Adler GmbH	
	Address	Ohechaussee 235 22848 Norderstedt Germany	
1.4	Emergency telephone number +49 (0) 40 / 528490		
		(This number is available only during office hours)	
SECTI	<b>ON</b> 2: Hazards identifi	cation	
2.1	Classification of the	substance or mixture	
	Classification accord	ing to Regulation (EC) No 1272/2008 (CLP)	
		Not classified as hazardous mixture.	
2.2	Label elements		
	Labelling according t	o Regulation (EC) No 1272/2008 (CLP)	
		Not applicable.	
2.3	Other hazards		
	Assessment of PBT/vF	PvB	
		No data available.	
	See section 4 and 11 f See section 9 for dust	or information on health effects and symptoms. explosion information.	

7		bh-Adler Tent Business Dera group company			ORX, IT'S
	ety Data Sh ding to Regulation	<b>eet</b> on (EC) No 1907/2006 (R	EACH)		
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Versio	on: 03			Replace version:	02
SECTIO	ON 3: Compos	ition/information on in	aredients		
3.2	Mixtures		<b>3</b>		
3.2	Chemical name	2	CAS-No	[Weight %]	
	Polyester resin		confidential	70-80	
	•	including manganese)	66402-68-4	5-10 (as Mn:<2)	
	Carbon Black		1333-86-4	3-8 1 F	
	Amorphous sili Titanium dioxic		7631-86-9 13463-67-7	1-5 1-5	
	Information of	ingredients			
	(1) Substance,	which present a health	or environmenta	al hazard within the me	aning of CLP:
		None.			
	(2) Substance,	which are assigned Co	mmunity workpla	ace exposure limits:	
None.					
(3) Substance, which are PBT or vPvB in accordance with the criteria set out in Annex XIII of REACH:				in Annex XIII of	
		None.			
	(4) Substance, REACH (S	which are included in th VHC):	ne list establishe	d in accordance with A	rticle 59(1) of
		None.			
	See section 16	for the full text of the H	statements dec	lared above.	
SECTIO	ON 4: First aid	measures			
4.1	Description of	first aid measures			
	Inhalation:	Remove from exposure doctor in case of such			water. Consult a
	Skin contact:	Wash with soap and w	ater.		
	Eye contact:	Flush with water imme	diately and see	a doctor if irritating.	
	Ingestion:	Rinse out the mouth. I treatment if necessary		glasses of water to dilu	ite. Seek medical
4.2	Most importar	nt symptoms and effec	ts, both acute a	and delayed	
	Potential health	n effects and symptoms			
	Inhalation:	Prolonged inhalation o product as intended do dusts.			





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4.2	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 immediate medical attention and special treatment needed No additional information available.

#### SECTION 5: Firefighting measures

<b>5</b> 4	
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
	Pay attention not to blow away dust. Drain water off around and decrease the atmosphere temperature to extinguish the fire.
	Protection equipment for firefighters
	None specified.
SECTI	ION 6: Accidental release measures

6.1 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.
6.2 Environmental precautions Do not allow to enter into surface water or drains.
6.3 Methods and material for containment and 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.





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SECTION 7: Handling and storage

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7.1 Precautions for safe handling

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

7.2 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.

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7.3 Specific end use(s)

No additional information available.

### SECTION 8: Exposure controls/personal protection

8.1 Control parameters

US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m<sup>3</sup> (Inhalable particles) 3 mg/m<sup>3</sup> (Respirable particles) Manganese inorganic compounds (Ferrite component): 0.1 mg/m3 (Inhalable fraction) 0.02 mg/m<sup>3</sup> (Respirable fraction) (as Mn) Carbon Black: 3.0 mg/m<sup>3</sup> (Inhalable fraction) Titanium dioxide: 10 mg/m<sup>3</sup> US OSHA PEL (TWA) Particles: 15 mg/m<sup>3</sup> (Total dust) 5 mg/m<sup>3</sup> (Respirable fraction) Manganese compounds (Ferrite component): 5 mg/m<sup>3</sup> (Ceiling) (as Mn) Carbon Black: 3.5 mg/m<sup>3</sup> Amorphous silica: 80 mg/m<sup>3</sup>/%SiO<sub>2</sub> Titanium dioxide: 15 mg/m<sup>3</sup> (Total dust) EU Occupational exposure limits: Directive (EC) 2000/39, (EC) 2006/15 and (EU) 2009/161 Not listed. 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.

8.2



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#### SECTION 9: Physical and chemical properties

according to Regulation (EC) No 1907/2006 (REACH)

1 Ir	nformation on basic physical and chem	iical properties	
	Appearance		
	Physical state	Solid (fine powder)	
	Colour	Black	
	Odour	Odourless	
	Odour threshold	No data available.	
	рН	No data available.	
	Melting range [°C]	100-120 (Toner)	
	Boiling point [°C]	No data available.	
	Flash point [°C]	No data available.	
	Evaporation rate	No data available.	
	Flammability (solid, gas)	No data available.	
	Upper flammability or explosive limit	No data available.	
	Lower flammability or explosive limit	No data available.	
	Vapour pressure	No data available.	
	Vapour density	No data available.	
	Relative density [g/m <sup>3</sup> ]	1.2-1.4 (Toner)	
	Solubility (ies)	almost insoluble in water.	
	Partition coefficient: n-octanol/water	No data available.	
	Auto-ignition temperature [°C]	No data available.	
	Decomposition temperature [°C]	No data available.	
	Viscosity	No data available.	
	Explosive properties	No data available.	
	Oxidizing properties	No data available.	

#### 9.2 Other information

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.





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# SECTION 10: Stability and reactivity

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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.

## SECTION 11: Toxicological information

11.1	1.1 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)* (Toner). >2000 mg/kg (rat)** (Carrier).		
	Dermal ( $LD_{50}$ )	No data available (Toner). No data available (Carrier).		
	Inhalation $(LC_{50}(4hr))$	>5.09 mg/l (rat)*		
	Skin corrosion/irritation			
	Acute skin irritation	Non-irritant (rabbit)* (Toner). Non-irritant (rabbit)** (Carrier).		
	Serious eye damage/irritation			
	Acute eye irritation	Mild irritant (rabbit)*.		
	Respiratory or skin sensitization			
	Skin sensitization	Non-sensitizer (mouse)* (Toner). Non-sensitizer** (Carrier).		





according to Regulation (EC) No 1907/2006 (REACH)

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Version:	03	Replace version:	02

11.1	Germ cell mutagenicity	Ames test is negative** (Toner). Ames test is negative** (Carrier). *(based on test result of similar product) **(based on test result of constituent materials)		
	Information of ingredients:			
	-	to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.		
	Carcinogenicity			
	Information of ingredients:			
	No carcinogen or potential carcinogen (except Titanium dioxide and Carbon Black) 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.			
	The IARC re-evaluated Titanium dioxide and 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 tumours 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 tumours. Moreover, a two years cancer bioassay using a typical toner preparation containing Carbon Black demonstrated no association between toner exposure and tumour development in rats (1). In the animal chronic inhalation studies for Titanium dioxide, the lung tumour was observed only in 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 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.			
	Reproductive toxicity			
	Information of ingredients:			
	No reproductive toxicant according to MAK, California Proposition 65, TRGS 905 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			
	of lung fibrosis was observed in	alation exposure to a typical toner, a mild to moderate degree 92% of the rats in the high concentration (16 mg/m <sup>3</sup> ) to mild degree of fibrosis was noted in 22% of the animal in the		

middle (4mg/m<sup>3</sup>) exposure group (1). However, no pulmonary change was reported in the lowest (1mg/m<sup>3</sup>) exposure group, the most relevant level to potential human exposures.

Other information

No data available.





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## SECTION 12: Ecological information

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12.1	Toxicity
	No data available.
12.2	Persistence and degradability
	No data available.
12.3	Bio accumulative potential
	No data available.
12.4	Mobility in soil
	No data available.
12.5	Results of PBT and vPvB assessment
	No data available.
12.6	Other adverse effects
	No additional information available.

### SECTION 13: Disposal considerations

### 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.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.





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14.5 Environmental hazards

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None.

14.6 Special precautions for user

No additional information available.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

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 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 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 (Authorizations):			
	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	Chemical Safety Assessment			
	No data available.			

The	Umph-Adler Document Business A KYOCERA GROUP COMPANY		DRX, IT'S
Safety Da according to R	ta Sheet legulation (EC) No 1907/2006 (REACH)		
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Revision date:	09/01/2019	Effective date:	09/01/2019
Version:	03	Replace version:	02
SECTION 16:	Other information		
To the best of our knowledge, the information contained herein is accurate. However, we			

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 inform	Revision information: Section 1 (Product name)						
Full text of H st	atements under sections 3: Not applicable						
Abbreviations and	d acronyms						
ACGIH       American Conference of Governmental Industrial Hygienists (2010)         TLVs and BEIs       Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices         CAS       Chemical Abstracts Service         CLP       Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures         DFG       Deutsche Forschungsgemeinschaft         EPA       Environmental Protection Agency (Integrated Risk Information System) (USA)         IARC       International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Rito Humans)         MAK       Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)         NTP       National Toxicology Program (Report on Carcinogens) (USA)							
OSHA	Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)						
PBT PEL	Persistent, Bio accumulative and Toxic Permissible Exposure Limits						
Proposition 65 REACH	California, Safe Drinking Water and Toxic Enforcement Act of 1986 Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals						
STOT Specific target organ toxicity							
SVHC TRGS 905	Substances of Very High Concern Technische Regeln für Gefahrstoffe (Deutschland)						
TSCA	Toxic Substances Control Act (USA)						
TWA	Time Weighted Average						
UN	United Nations						
vPvB	very Persistent and very Bio accumulative						
WHMIS	Workplace Hazardous Materials Information System (Canada)						
Key literature refe	Key literature references and sources for data						
Toxicolog	(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 Mc	phograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93						
(3) NIOSH C	CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational						
(4) The cont	<ul> <li>Exposure to Titanium Dioxide DRAFT"</li> <li>(4) The contents are in accordance with Material Safety Data Sheet "CK8514K-TA-UT-03-EN"; 09/01/2019 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.</li> </ul>						





according to Regulation (EC) No 1907/2006 (REACH)

SDS Number: CK8514M-TA-UT-03-EN

03

Revision date: 09/01/2019

Version:

Issue date:	18/04/2016
Effective date:	09/01/2019
Replace version:	02

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

4.4	Due du et identifieu			
1.1	Product identifier			
	Product name	Magenta Toner for		
		5006ci, 6006ci, 5007ci, 6007ci		
	Consumable name	CK-8514M		
	Product form	Mixture		
1.2	Relevant identified u	ses of the substance or mixture and uses advised against		
	Identified uses	The image formation of our electrophotographic equipment. 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	TA Triumph-Adler GmbH		
	Address	Ohechaussee 235 22848 Norderstedt Germany		
1.4	Emergency telephone number +49 (0) 40 / 528490			
		(This number is available only during office hours)		
SECTI	ON 2: Hazards identif	ication		
0L011		louion		
2.1	Classification of the	substance or mixture		
	Classification accord	ding 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/v	PvB		
		No data available.		
		for information on health effects and symptoms. explosion information.		

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	The Docum	ent Business					
	Safety Data Sheet						
		on (EC) No 1907/2006 (R	EACH)				
		4M-TA-UT-03-EN		Issue date:	18/04/2016		
Revisi	on date: 09/01/2	2019		Effective date:	09/01/2019		
Versio	on: 03			Replace version: 02			
SECTIO	ON 3: Composi	ition/information on in	gredients				
3.2	Mixtures						
	Chemical name	2	CAS-No	[Weight %]			
	Polyester resin	(3 kinds)	confidential	70-80			
	Ferrite (Ferrite Organic Pigme	including manganese)	66402-68-4 confidential	5-10 (as Mn:<2) 3-8			
	Amorphous sili		7631-86-9	3-0 1-5			
	Titanium dioxic	le	13463-67-7	1-5			
	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 PBT or vPvB in accordance with the criteria set out in Annex XIII of REACH:						
		None.					
	(4) Substance, which are included in the list established in accordance with Article 59(1) of REACH (SVHC):						
		None.					
	See section 16	for the full text of the H	statements dec	lared above.			
SECTIO	ON 4: First aid	measures					
4.1	Description of	first aid measures					
	Inhalation:	Remove from exposure doctor in case of such			vater. Consult a		
	Skin contact:	Wash with soap and w	Wash with soap and water.				
	Eye contact:	Flush with water imme	diately 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.					
4.2	Most importar	nt symptoms and effec	ts, both acute a	and delayed			
	Potential health	n effects and symptoms					
	Inhalation:	Prolonged inhalation o product as intended do dusts.					





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	4.2	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 immediate medical attention and		Indication of a	any immediate medical attention and special treatment neg	

4.3 Indication of any immediate medical attention and special treatment needed No additional information available.

#### SECTION 5: Firefighting measures

5.1	5.1 Extinguishing media		
Suitable extinguishing media			
Water spray, foam, powder, CO <sub>2</sub> 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		
	Pay attention not to blow away dust. Drain water off around and decrease the atmosphere temperature to extinguish the fire.		
	Protection equipment for firefighters		
	None specified.		
SECT	SECTION 6: Accidental release measures		

6.1	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.
6.2	Environmental precautions
	Do not allow to enter into surface water or drains.
6.3	Methods and material for containment and 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.





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SECTION 7: Handling and storage

03

7.1 Precautions for safe handling

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

7.2 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.

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7.3 Specific end use(s)

No additional information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m<sup>3</sup> (Inhalable particles) 3 mg/m<sup>3</sup> (Respirable particles) Manganese inorganic compounds (Ferrite component): 0.1 mg/m<sup>3</sup> (Inhalable fraction) 0.02 mg/m<sup>3</sup> (Respirable fraction) (as Mn) Titanium dioxide: 10 mg/m<sup>3</sup> US OSHA PEL (TWA) Particles: 15 mg/m<sup>3</sup> (Total dust) 5 mg/m<sup>3</sup> (Respirable fraction) Manganese compounds (Ferrite component): 5 mg/m<sup>3</sup> (Ceiling) (as Mn)

Amorphous silica: 80 mg/m<sup>3</sup>/%SiO<sub>2</sub> Titanium dioxide: 15 mg/m<sup>3</sup> (Total dust) EU Occupational exposure limits: Directive (EC) 2000/39, (EC) 2006/15 and (EU) 2009/161 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

Information on basic physi	cal and chemical properties
Appearance	
Physical state	Solid (fine powder)
Colour	Magenta
Odour	Odourless
Odour threshold	No data available.
рН	No data available.
Melting range [°C]	100-120 (Toner)
Boiling point [°C]	No data available.
Flash point [°C]	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper flammability or exp	losive limit No data available.
Lower flammability or exp	losive limit No data available.
Vapour pressure	No data available.
Vapour density	No data available.
Relative density [g/m <sup>3</sup> ]	1.2-1.4 (Toner)
Solubility (ies)	almost insoluble in water.
Partition coefficient: n-octa	anol/water No data available.
Auto-ignition temperature	[°C] No data available.
Decomposition temperatu	re [°C] No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

#### 9.2 Other information

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.





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# SECTION 10: Stability and reactivity

03

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.
0507	

## 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 <sub>50</sub> )	>2000 mg/kg (rat)* (Toner). >2000 mg/kg (rat)** (Carrier).	
	Dermal (LD <sub>50</sub> )	No data available (Toner). No data available (Carrier).	
	Inhalation ( $LC_{50}(4hr)$ )	>5.08 mg/l (rat)*	
	Skin corrosion/irritation		
	Acute skin irritation	Non-irritant (rabbit)* (Toner). Non-irritant (rabbit)** (Carrier).	
	Serious eye damage/irritation		
	Acute eye irritation	Mild irritant (rabbit)*.	
	Respiratory or skin sensitization		
	Skin sensitization	Non-sensitizer (mouse)* (Toner). Non-sensitizer** (Carrier).	
1			





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11.1	Germ cell mutagenicity	Ames test is negative** (Toner). Ames test is negative** (Carrier).		
		*(based on test result of similar product)		
		**(based on test result of constituent materials)		
	Information of ingredients:			
	No mutagen according	to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.		
	Carcinogenicity			
	Information of ingredients:			
	No carcinogen or potential carcinogen (except Titanium dioxide) 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.			
	The IARC reevaluated Titanium dioxide as a Group 2B carcinogen (possibly carcinogenic to humans) as the result of inhalation exposure tests 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 only in 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 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.			
	Reproductive toxicity			
	Information of ingredients:			
	No reproductive toxicar (EC) No 1272/2008 An	nt according to MAK, California Proposition 65, TRGS 905 and nex VI.		
	STOT-single exposure	No data available.		
	STOT-repeated exposure	No data available.		
	Aspiration hazard	No data available.		
	Chronic effects			
	of lung fibrosis was observed ir exposure group, and a minimal middle (4mg/m <sup>3</sup> ) exposure grou	halation exposure to a typical toner, a mild to moderate degree in 92% of the rats in the high concentration (16 mg/m <sup>3</sup> ) to mild degree of fibrosis was noted in 22% of the animal in the up (1). However, no pulmonary change was reported in the up, the most relevant level to potential human exposures.		
	Other information	No data available.		





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## SECTION 12: Ecological information

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12.1	Toxicity
	No data available.
12.2	Persistence and degradability
	No data available.
12.3	Bio accumulative potential
	No data available.
12.4	Mobility in soil
	No data available.
12.5	Results of PBT and vPvB assessment
	No data available.
12.6	Other adverse effects

#### No additional information available.

### SECTION 13: Disposal considerations

### 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.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.





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14.5 Environmental hazards

03

None.

14.6 Special precautions for user

No additional information available.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

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 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 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 (Authorizations):			
	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	Chemical Safety Assessment			
	No data available.			

The Document Business			DRX, IT'S
Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)			
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Version:	03	Replace version:	02
SECTION 16:	Other information		<u> </u>

	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.				
Revisio	on informa	ation: Section 1 (Product name)			
Full tex	t of H sta	atements under sections 3: Not applicable			
Abbrevia	ations and	acronyms			
ACGIH TLVs and CAS CLP DFG EPA IARC	d BEls	American Conference of Governmental Industrial Hygienists (2010) Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures Deutsche Forschungsgemeinschaft Environmental Protection Agency (Integrated Risk Information System) (USA) International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks			
to Humans) MAK Maximale Arbeitsplatzkonzentration of NTP National Toxicology Program (Repor OSHA Occupational Safety and Health Adm PBT Persistent, Bio accumulative and Tox		to Humans) Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011) National Toxicology Program (Report on Carcinogens) (USA) Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z) Persistent, Bio accumulative and Toxic Permissible Exposure Limits			
	Proposition 65 California, Safe Drinking Water and Toxic Enforcement Act of 1986				
UN vPvB		Specific target organ toxicity Substances of Very High Concern Technische Regeln für Gefahrstoffe (Deutschland) Toxic Substances Control Act (USA) Time Weighted Average United Nations very Persistent and very Bio accumulative Workplace Hazardous Materials Information System (Canada)			
Key liter	ature refer	rences 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) (3)	NIOSH C	nograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93 URRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational to Titanium Disvide DRAET"			
(4)	Exposure to Titanium Dioxide DRAFT" The contents are in accordance with Material Safety Data Sheet "CK8514M-TA-UT-03-EN"; 09/01/2019 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.				





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Revision date: 09/01/2019

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier	
	Product name	Yellow Toner for
		5006ci, 6006ci, 5007ci, 6007ci
	Consumable name	CK-8514Y
	Product form	Mixture
1.2	Relevant identified u	ses of the substance or mixture and uses advised against
	Identified uses	The image formation of our electrophotographic equipment. 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	TA Triumph-Adler GmbH
	Address	Ohechaussee 235 22848 Norderstedt Germany
1.4	Emergency telephon	ne number +49 (0) 40 / 528490
		(This number is available only during office hours)
SECTI	ON 2: Hazards identif	instign
SECH		
2.1	Classification of the	substance or mixture
	Classification accore	ding 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/v	PvB
		No data available.
		for information on health effects and symptoms.

7.	Triumph-Adler The Document Business A KYOCERA GROUP COMPANY				
	ty Data Sh ling to Regulation	<b>eet</b> on (EC) No 1907/2006 (R	EACH)		
SDS N	umber: CK851	4Y-TA-UT-03-EN		Issue date:	23/06/2016
Revisi	on date: 09/01/2	2019		Effective date:	09/01/2019
Versio	on: 03			Replace version:	02
SECTIO	N 3. Composi	tion/information on in	aredients		
	•		greatents		
3.2	Mixtures				
	Chemical name		CAS-No	[Weight %]	
	Polyester resin Ferrite (Ferrite	(3 kinds) including manganese)	confidential 66402-68-4	70-80 5-10 (as Mn:<2)	
	Organic Pigme	nt	confidential	3-8	
	Amorphous sili Titanium dioxid		7631-86-9 13463-67-7	1-5 1-5	
	Information of				
		which present a health	or environmenta	I hazard within the mea	aning of CLP:
	. ,	None.			
	(2) Substance,	which are assigned Cor	mmunity workpla	ace exposure limits:	
	None.				
	(3) Substance, which are PBT or vPvB in accordance with the criteria set out in Annex XIII of REACH:				
		None.			
	(4) Substance, REACH (S)	which are included in th VHC):	e list establishe	d in accordance with A	rticle 59(1) of
		None.			
	See section 16	for the full text of the H	statements dec	ared above.	
SECTIO	ON 4: First aid	measures			
4.1	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 imme	diately 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.			
4.2	Most importar	nt symptoms and effects, both acute and delayed			
	Potential health	n effects and symptoms			
	Inhalation:	Prolonged inhalation or product as intended do dusts.			





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4.2	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 immediate 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
	Pay attention not to blow away dust. Drain water off around and decrease the atmosphere temperature to extinguish the fire.
	Protection equipment for firefighters
	None specified.
SECT	ION 6: Accidental release measures

6.1 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.
6.2 Environmental precautions Do not allow to enter into surface water or drains.
6.3 Methods and material for containment and 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.





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SECTION 7: Handling and storage

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7.1 Precautions for safe handling

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

7.2 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.

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7.3 Specific end use(s)

No additional information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m<sup>3</sup> (Inhalable particles) 3 mg/m<sup>3</sup> (Respirable particles) Manganese inorganic compounds (Ferrite component): 0.1 mg/m<sup>3</sup> (Inhalable fraction) 0.02 mg/m<sup>3</sup> (Respirable fraction) (as Mn) Titanium dioxide: 10 mg/m<sup>3</sup> US OSHA PEL (TWA) Particles: 15 mg/m<sup>3</sup> (Total dust) 5 mg/m<sup>3</sup> (Respirable fraction) Manganese compounds (Ferrite component): 5 mg/m<sup>3</sup> (Ceiling) (as Mn)

Amorphous silica: 80 mg/m<sup>3</sup>/%SiO<sub>2</sub> Titanium dioxide: 15 mg/m<sup>3</sup> (Total dust) EU Occupational exposure limits: Directive (EC) 2000/39, (EC) 2006/15 and (EU) 2009/161 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

according to Regulation (EC) No 1907/2006 (REACH)

1 Ir	formation on basic physical and chem	nical properties	
	Appearance		
	Physical state	Solid (fine powder)	
	Colour	Yellow	
	Odour	Odourless	
	Odour threshold	No data available.	
	рН	No data available.	
	Melting range [°C]	100-120 (Toner)	
	Boiling point [°C]	No data available.	
	Flash point [°C]	No data available.	
	Evaporation rate	No data available.	
	Flammability (solid, gas)	No data available.	
	Upper flammability or explosive limit	No data available.	
	Lower flammability or explosive limit	No data available.	
	Vapour pressure	No data available.	
	Vapour density	No data available.	
	Relative density [g/m <sup>3</sup> ]	1.2-1.4 (Toner)	
	Solubility (ies)	almost insoluble in water.	
	Partition coefficient: n-octanol/water	No data available.	
	Auto-ignition temperature [°C]	No data available.	
	Decomposition temperature [°C]	No data available.	
	Viscosity	No data available.	
	Explosive properties	No data available.	
	Oxidizing properties	No data available.	

#### 9.2 Other information

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.





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# SECTION 10: Stability and reactivity

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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.
0507	

## 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 <sub>50</sub> )	>2000 mg/kg (rat)* (Toner). >2000 mg/kg (rat)** (Carrier).		
	Dermal $(LD_{50})$	No data available (Toner). No data available (Carrier).		
	Inhalation ( $LC_{50}(4hr)$ )	>5.10 mg/l (rat)*		
	Skin corrosion/irritation			
	Acute skin irritation	Non-irritant (rabbit)* (Toner). Non-irritant (rabbit)** (Carrier).		
	Serious eye damage/irritation			
	Acute eye irritation	Mild irritant (rabbit)*.		
	Respiratory or skin sensitization			
	Skin sensitization	Non-sensitizer (mouse)* (Toner). Non-sensitizer** (Carrier).		





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11.1	Germ cell mutagenicity	Ames test is negative** (Toner). Ames test is negative** (Carrier).			
		*(based on test result of similar product)			
		**(based on test result of constituent materials)			
	Information of ingredients:				
	No mutagen according to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.				
	Carcinogenicity				
	Information of ingredients:				
	No carcinogen or potential carcinogen (except Titanium dioxide) 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.				
The IARC reevaluated Titanium dioxide as a Group 2B carcinogen (possibly carcin humans) as the result of inhalation exposure tests in rats. But, oral/skin test does n carcinogenicity (2). In the animal chronic inhalation studies for Titanium dioxide, the tumor was observed only in rats. It is estimated that this is attributed to the overloa lung clearance mechanism (overload phenomenon) (3). The inhalation of excessiv dioxide does not occur in normal use of this product. Also, epidemiological studies have not revealed any evidence of the relation between occupational exposure to dioxide and respiratory tract diseases.					
	Reproductive toxicity				
	Information of ingredients:				
	No reproductive toxicant according to MAK, California Proposition 65, TRGS 905 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 <sup>3</sup> ) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m <sup>3</sup> ) exposure group (1). However, no pulmonary change was reported in the lowest (1mg/m <sup>3</sup> ) exposure group, the most relevant level to potential human exposures.				
	Other information	No data available.			





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### SECTION 12: Ecological information

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12.1	Toxicity	
	No data available.	
12.2	Persistence and degradability	
	No data available.	
12.3	Bio accumulative potential	
	No data available.	
12.4	Mobility in soil	
	No data available.	
12.5	Results of PBT and vPvB assessment	
	No data available.	
12.6	Other adverse effects	
	No additional information available.	

### SECTION 13: Disposal considerations

### 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.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.





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14.5 Environmental hazards

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None.

14.6 Special precautions for user

No additional information available.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1	15.1 Safety, health and environmental regulations/legislation specific for the substance mixture			
	EU- regulations			
	Regulation (EC) No 1005 / 2009 (on substances that deplete the ozone layer, Annex I and 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 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 (Authorizations):			
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	Chemical Safety Assessment			
	No data available.			

<b>7</b> ATri	umph-Adler		ORX, IT'S					
	Document Business							
Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)								
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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 Regulation (EC) No 1907/2006, Annex II as amended by Regulation (EU) No 453/2010 with respect to SDSs.								
Revision inform	nation: Section 1 (Product name)							
Full text of H s	tatements under sections 3: Not a	pplicable						
Abbreviations and acronyms								
ACGIH       American Conference of Governmental Industrial Hygienists (2010)         TLVs and BEIs       Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices         CAS       Chemical Abstracts Service         CLP       Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures         DFG       Deutsche Forschungsgemeinschaft         EPA       Environmental Protection Agency (Integrated Risk Information System) (USA)         IARC       International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks								
to Humans)MAKMaximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)NTPNational Toxicology Program (Report on Carcinogens) (USA)OSHAOccupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)PBTPersistent, Bio accumulative and ToxicPELPermissible Exposure LimitsProposition 65California, Safe Drinking Water and Toxic Enforcement Act of 1986REACHRegulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals								
STOT SVHC TRGS 905 TSCA TWA UN vPvB WHMIS	Specific target organ toxicity Substances of Very High Concern Technische Regeln für Gefahrstoffe (Deutschla Toxic Substances Control Act (USA) Time Weighted Average United Nations very Persistent and very Bio accumulative Workplace Hazardous Materials Information Sy							

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"

(4) The contents are in accordance with Material Safety Data Sheet "CK8514Y-TA-UT-03-EN"; 09/01/2019 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.