

SDS Number: CK4520-TA-UT-02-EN

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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			
		P-2540i MFP			
	Consumable name	CK-4520			
	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 supplier 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	Deelbögenkamp 4c 22297 Hamburg Germany			
1.4	Emergency telephone	e number +49 (0) 40 / 528490 (This number is available only 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.

Safe	ety Data Sh	ent Business	EACH)			DRX, IT'S
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SECTIO	ON 3: Composi	ition/information on in	aredients			
			9.00.00			
3.2	Mixtures		040.1	M/. 1. 1. (0/	0	
	Chemical name Polyester resin Magnetite Aluminium com Amorphous sili Titanium dioxic	npound ca	CAS No Confidential Confidential Confidential 7631-86-9 13463-67-7	<u>Weight%</u> 45-55 35-45 < 2 < 2 < 1	<u>Classif</u> Carc.2	<u>ication (CLP)</u> (H351)
	Information of ingredients (1) Substance, which present a health or environment			al hazard within t	he mear	ning of CLP:
		Titanium dioxide.				
(2) Substance, which are assigned Community workpla			ace exposure lim	its:		
None.						
	(3) Substance, REACH:	which are PBT or vPvB	in accordance v	with the criteria s	et out in	Annex XIII of
		None.				
	(4) Substance, REACH (S	which are included in th VHC):	e list establishe	d in accordance	with Arti	cle 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 Consult a doctor in cas				ater.
	Skin contact:	Wash with soap and w	ater.			
	Eye contact:	Flush with water imme	diately and see	a doctor if irritati	ng.	
	Ingestion:	Rinse out the mouth. D Seek medical treatmer		glasses of water	to dilute	2.





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4.2 Most important symptoms and effects, both acute and delayed Potential health effects and symptoms Inhalation: Prolonged inhalation of excessive dusts may cause lung damage. Use of this product as intended does not result in prolonged inhalation of excessive toner dusts. Skin contact: Unlikely to cause skin irritation. Eye contact: May cause transient eye irritation. Ingestion: Use of this product as intended does not result in ingestion. 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, CO₂ 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

Fire-fighting procedures

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.

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.





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6.4 Reference to other sections See section 13 for disposal information.

SECTION 7: Handling and storage

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. Keep away from fire. Keep out of the reach of children.

7.3 Specific end use(s)

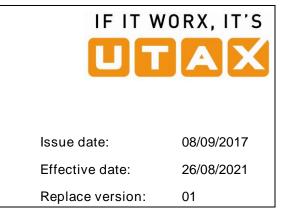
No additional information available.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters** (Reference data) US ACGIH Threshold Limit Values (TWA) Particles: 10 mg/m³ (Inhalable particles) 3 mg/m³ (Respirable particles) Aluminium insoluble compounds: 1 mg/m³ (Respirable particles) Titanium dioxide: 10 mg/m³ US OSHA PEL (TWA) Particles: 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction) Amorphous silica: 80 mg/m³/%SiO₂ Titanium dioxide: 15 mg/m³ (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

.1 Information c	on basic physical and chem	nical properties	
Appear	ance		
	Physical state	Solid (fine powder)	
	Colour	Black	
	Odour	Odourless	
	Odour threshold	No data available.	
рН		No data available.	
Melting	point [°C]	100-120 (Toner)	
Boiling	point	No data available.	
Flash p	oint	No data available.	
Evapora	ation rate	No data available.	
Flamma	ability (solid, gas)	No data available.	
Upper f	lammability or explosive limit	No data available.	
Lower f	lammability or explosive limit	No data available.	
Vapour	pressure	No data available.	
Vapour	density	No data available.	
Relative	e density [g/cm ³]	1.5-1.8 (Toner)	
Solubili	ty (ies)	Almost insoluble in water.	
Partition	n coefficient: n-octanol/water	No data available.	
Auto-ig	nition temperature	No data available.	
Decom	position temperature	No data available.	
Viscosi	ty	No data available.	
Explosi	ve properties	No data available.	
Oxidizir	ng properties	No data available.	

9.2 Other information

Dust explosion properties

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 read	ctions				
	Hazardous reactions w	vill not occur.				
10.4	Conditions to avoid					
	None specified.					
10.5	Incompatible materials					
	None specified.					
10.6	Hazardous decomposition p	roducts				
	Hazardous decomposi	tion products are not to be produced.				
SECTI	ON 11: Toxicological informa	ation				
44.4						
11.1	Information on toxicological					
		lassification criteria listed below are not met.				
	Acute toxicity					
		> 2000 mg/kg (rat)* (Toner)				
	Dermal (LD ₅₀)	No data available (Toner).				
	Inhalation ($LC_{50}(4hr)$)	> 5.16 mg/l (rat)* (Toner)				
	Skin corrosion/irritation					
	Acute skin irritation	Non-irritant (rabbit)* (Toner)				
	Serious eye damage/irritatio					
	Acute eye irritation	Mild irritant (rabbit)* (Toner)				
	Respiratory or skin sensitiza	ation				
	Skin sensitization	Non-sensitising (mouse)* (Toner)				
	Germ cell mutagenicity					
		Ames test is negative (Toner) *(based on test result of similar product)				
	Information of ingredients:					
	No mutagen according to MAK, TRGS905 und (EC) No 1272/2008 Annex VI.					





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11.1 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 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 und (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 (4mg/m³) exposure group (1). But no pulmonary change was reported in the lowest (1mg/m³) 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.

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12.2 Persistence and degradability

No data available.

12.3 Bio accumulative potential

No data available.

12.4 Mobility in soil

No data available.

Results of PBT and vPvB assessment 12.5

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).

Transport information SECTION 14:

14.1 **UN-number**

None.

14.2 UN Proper shipping name

None.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.

14.5 Environmental hazards

None.





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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 (EU) 2019/1021 (on persistent organic pollutants, Annex I as amended):
	Not listed.
	Regulation (EU) No 649/2012 (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.

7 / Teir	umph-Adler	IF IT W	ORX, IT'S				
	Document Business						
	A KYOCERA GROUP COMPANY						
Safety Data Sheet							
according to R	egulation (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) 2015/830 with respect to SDSs.							
Revision inform	nation: Section 3						
Full text of H st	atements under sections 3: H351: Susp	ected of causing cancer (inhalation)				
Abbreviations and	d acronyms						
ACGIH	ACGIH American Conference of Governmental Industrial Hygienists 2016 TLVs and BEIs (Threshold Limit Values for Chemical Substances and Physical Agents and Biological						
CAS	Exposure Indices)						
CLP							
DFG EPA	DFG Deutsche Forschungsgemeinschaft EPA Environmental Protection Agency (Integrated Risk Information System) (US)						
IARC	IARC International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks						
МАК	to Humans) MAK Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)						
NTP	National Toxicology Program (Report on Carcinogens)	(US)					
PBT	OSHA Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z) PBT Persistent, Bio accumulative and Toxic						
PEL Broposition 65	PEL Permissible Exposure Limits						
REACH	Proposition 65California, Safe Drinking Water and Toxic Enforcement Act of 1986REACHRegulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of						
STOT	Chemicals Specific target organ toxicity						
SVHC	Substances of Very High Concern						
TRGS 905 TSCA	Technische Regeln für Gefahrstoffe (Deutschland) Toxic Substances Control Act (US)						
TWA	Time Weighted Average						
UN vPvB	United Nations very Persistent and very Bio accumulative						
WHMIS	Workplace Hazardous Materials Information System (C	anada)					
Key literature refe	erences 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 Mo	(2) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93						
Exposure	Exposure to Titanium Dioxide DRAFT"						
	RA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-I						
1							