



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

SDS Number: PK3013-TA-UT-01-EN

01

Revision date: -

Version:

Issue date: 18/12/2017 Effective date: 18/12/2017 Replace version:

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

1.1	Product identifier		
	Product name	Black Toner for	
		P-4531i MFP, P-4536iMFP	
	Consumable name	PK-3013	
	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	ication	
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		

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.

Triumph-Adler The Document Business A KYOCERA GROUP COMPANY Safety Data Sheet according to Regulation (EC) No 1907/200	D6 (REACH)	100	IT WORX, IT'S		
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SECTION 3: Composition/information of	on ingredients				
3.2 Mixtures	5				
Chemical name	CAS-No [	[Weight %]			
Polyester resin		40-50			
Magnetite		40-30 35-45			
Wax		1-5			
Amorphous silica	7631-86-9	< 2			
Titanium dioxide	13463-67-7 <	< 1			
Information of ingredients					
(1) Substance, which present a he	ealth or environmental h	hazard withi	n 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.	None.				
(4) Substance, which are included REACH (SVHC):	l in the list established i	in accordanc	ce with Article 59(1) of		
None.					
See section 16 for the full text of t	he H statements declar	red above.			

SECTION 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 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.





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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, 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.

#### 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

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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. Keeping 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

US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m<sup>3</sup> (Inhalable particles) 3 mg/m<sup>3</sup> (Respirable particles) Titanium dioxide: 10 mg/m<sup>3</sup>

US OSHA PEL (TWA)

Particles: 15 mg/m<sup>3</sup> (Total dust) Amorphous silica: 80 mg/m<sup>3</sup>/%SiO<sub>2</sub> 5 mg/m<sup>3</sup> (Respirable fraction) Titanium dioxide: 15 mg/m<sup>3</sup> (Total dust)

EU Occupational exposure limits: Directive (EC) 2000/39, (EC) 2006/15 und (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 on basic physical and	l chemical properties
Appearance	
Physical state	Solid (fine powder)
Colour	Black
Odour	Odourless
Odour threshold	No data available.
рН	No data available.
Melting range [°C]	125 (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 lim	it No data available.
Lower flammability or explosive lim	it No data available.
Vapour pressure	No data available.
Vapour density	No data available.
Relative density [g/m <sup>3</sup> ]	1.5-2.0 (Toner)
Solubility (ies)	almost insoluble in water.
Partition coefficient: n-octanol/wate	r 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

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.
050T	ION 11: Toxicological information

#### SECTION 11: Toxicological information

11.1 Information on toxicological effects		effects		
	Based on available data, the classification criteria listed below are not met.			
	Acute toxicity			
	Oral (LD <sub>50</sub> )	>2000 mg/kg (rat)*		
	Dermal (LD <sub>50</sub> )	No data available. (Toner)		
	Inhalation ( $LC_{50}(4hr)$ )	>5.0 mg/l (rat)*		
	Skin corrosion/irritation			
	Acute skin irritation	Non-irritant (rabbit)*.		
	Serious eye damage/irritation			
	Acute eye irritation	Minimal irritant (rabbit)*.		
	Respiratory or skin sensitization			
	Skin sensitization	Non-sensitizer (mouse)*.		
	Germ cell mutagenicity	Ames test is negative. (based on test result of constituent materials) (Toner)		
		*(based on test result of similar product) (Toner)		
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#### 11.1 Information of ingredients:

No mutagen according to MAK, TRGS905 und (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 und (EC) No 1272/2008 Annex VI.

The IARC re-evaluated 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). 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.
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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

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.

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 (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.



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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: -					
Full text of H statements under sections 3: Not applicable					
Abbreviations an					
ACGIH TLVs and BEIS CAS CLP DFG EPA IARC MAK NTP OSHA PBT PEL Proposition 65 REACH STOT SVHC TRGS 905 TSCA TWA UN vPvB WHMIS	American Conference of Governmental Industria Threshold Limit Values for Chemical Substances Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, Deutsche Forschungsgemeinschaft Environmental Protection Agency (Integrated Ri International Agency for Research on Cancer (I/ to Humans) Maximale Arbeitsplatzkonzentration der Deutsch National Toxicology Program (Report on Carcino Occupational Safety and Health Administration of Persistent, Bio accumulative and Toxic Permissible Exposure Limits California, Safe Drinking Water and Toxic Enford Regulation (EC) No 1907/2006 concerning the F Chemicals Specific target organ toxicity Substances of Very High Concern Technische Regeln für Gefahrstoffe (Deutschlar Toxic Substances Control Act (USA) Time Weighted Average United Nations very Persistent and very Bio accumulative Workplace Hazardous Materials Information Systemet	s and Physical Agents and Bic , labelling and packaging of su sk Information System) (USA) ARC Monographs on the Evalu- nen Forschungsgesellschaft (2 ogens) (USA) (29 CFR Part 1910 Subpart Z) cement Act of 1986 Registration, Evaluation, Autho	bstances and mixtures lations of Carcinogenic Risks 011)		
Key literature references and sources for data					
<ol> <li>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)</li> <li>IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93</li> <li>NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"</li> <li>The contents are in accordance with Material Safety Data Sheet "PK3013-TA-UT-01-EN"; 18/12/2017 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.</li> </ol>					