



Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)

SDS Number: PK3013-TA-UT-02-EN

02

Revision date: 26/08/2021

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-4536i MFP
	Consumable name	PK-3013
	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		r 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

<ul> <li>2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 (CLP) Not classified as hazardous mixture.</li> <li>2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 (CLP) Not applicable.</li> <li>2.3 Other hazards Assessment of PBT/vPvB No data available.</li> <li>See section 4 and 11 for information on health effects and symptoms. See section 9 for dust explosion information.</li> </ul>		
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.	2.1	Classification of the substance or mixture
<ul> <li>2.2 Label elements <ul> <li>Labelling according to Regulation (EC) No 1272/2008 (CLP)</li> <li>Not applicable.</li> </ul> </li> <li>2.3 Other hazards <ul> <li>Assessment of PBT/vPvB</li> <li>No data available.</li> <li>See section 4 and 11 for information on health effects and symptoms.</li> </ul> </li> </ul>		Classification according to Regulation (EC) No 1272/2008 (CLP)
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.		Not classified as hazardous mixture.
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Assessment of PBT/vPvB No data available. See section 4 and 11 for information on health effects and symptoms.		Not applicable.
No data available. See section 4 and 11 for information on health effects and symptoms.	2.3	Other hazards
See section 4 and 11 for information on health effects and symptoms.		Assessment of PBT/vPvB
		No data available.

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Safety Data She according to Regulation		EACH)			
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SECTION 3: Compositi	ion/information on ing	aradiants			
SECTION 5. Compositi		greatents			
3.2 Mixtures					
Chemical name		CAS No	Weight%	Classification (CLP)	
Polyester resin Magnetite		Confidential Confidential	40-50 35-45		
Wax		Confidential	1-5		
Amorphous silica Titanium dioxide		7631-86-9 13463-67-7	< 2 < 1	Carc.2(H351)	
	Information of ingredients (1) Substance, which present a health or environmental hazard within the meaning of CLP:				
Titanium dioxide.					
(2) Substance, w	which are assigned Con	nmunity workpla	ace exposure lim	nits:	
1	None.				
(3) Substance, w REACH:	(3) Substance, which are PBT or vPvB in accordance with the criteria set out in Annex XIII of REACH:				
1	None.				
(4) Substance, w REACH (SVI	vhich are included in th HC):	e list establishe	d in accordance	with Article 59(1) of	
1	None.				
See section 16 fe	or the full text of the H	statements dec	ared above.		
SECTION 4: First aid measures					
4.1 Description of f	irst aid measures				
Inhalation:	Remove from exposure Consult a doctor in cas				
	Wash with soap and wa		-		
Eye contact:					





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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

Fire-fighting procedures

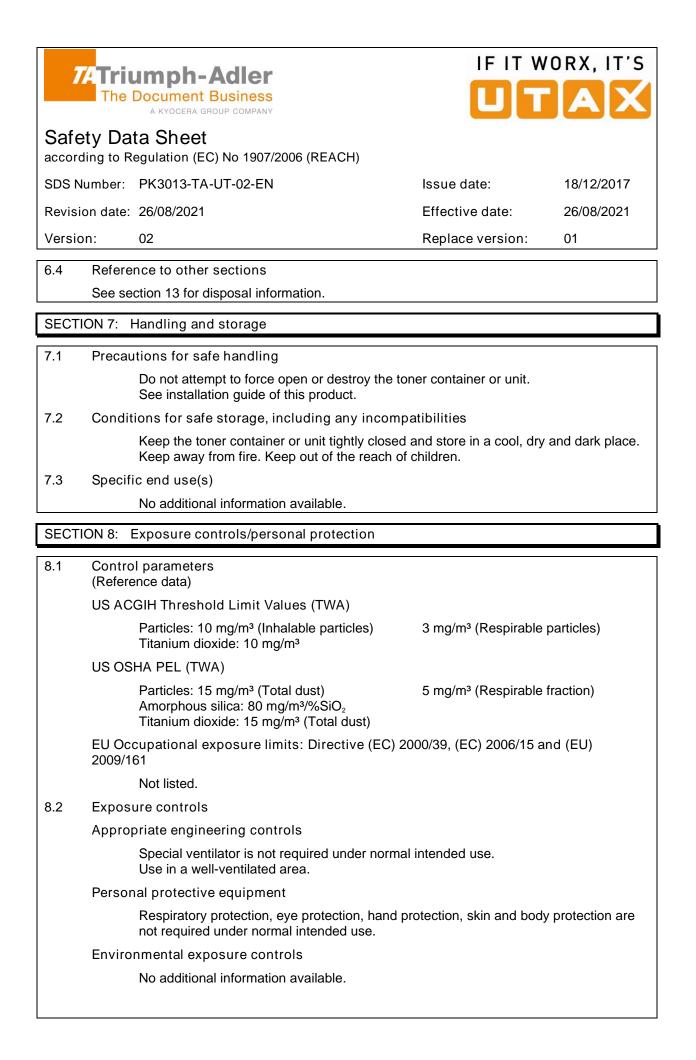
Pay attention not to blow away dust. Drain water off around and decrease the atmosphere temperature to extinguish the fire.

Protection equipment for firefighters

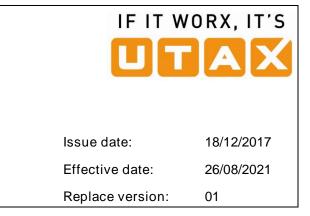
None specified.

# 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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#### SECTION 9: Physical and chemical properties

Information on basic physical and chem	nical properties
Appearance	
Physical state	Solid (fine powder)
Colour	Black
Odour	Odourless
Odour threshold	No data available.
рН	No data available.
Melting point [°C]	125 (Toner)
Boiling point	No data available.
Flash point	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/cm <sup>3</sup> ]	1.5-2.0 (Toner)
Solubility (ies)	Almost insoluble in water.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing 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.
SECT	ION 11: Toxicological informa	ation
11.1	Information on toxicological	effects
	Based on available data, the c	lassification criteria listed below are not met.
	Acute toxicity	
	Oral (LD <sub>50</sub> )	> 2000 mg/kg (rat)* (Toner)
	Dermal (LD <sub>50</sub> )	No data available (Toner).
	Inhalation $(LC_{50}(4hr))$	> 5.0 mg/l (rat)* (Toner)
	Skin corrosion/irritation	
	Acute skin irritation	Non-irritant (rabbit)* (Toner)
	Serious eye damage/irritatio	n
	Acute eye irritation	Minimal irritant (rabbit)* (Toner)
	Respiratory or skin sensitiza	ation
	Skin sensitization	Non-sensitising (mouse)* (Toner)
	Germ cell mutagenicity	
	Ames test i	s negative (Toner) (based on test result of constituent materials) *(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/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). But 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

2.1	Toxicity		
	Na	-1-4-	

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 (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.

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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: Suspec	ted of causing cancer (i	nhalation)					
Abbreviations and	d acronyms							
ACGIH 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 Industrial Hygienis 2016 TLVs and BEIs (Threshold Limit Values for Chemical Exposure Indices) Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling Deutsche Forschungsgemeinschaft Environmental Protection Agency (Integrated Risk Informa International Agency for Research on Cancer (IARC Mono to Humans) Maximale Arbeitsplatzkonzentration der Deutschen Forsch National Toxicology Program (Report on Carcinogens) (US Occupational Safety and Health Administration (29 CFR P Persistent, Bio accumulative and Toxic Permissible Exposure Limits California, Safe Drinking Water and Toxic Enforcement Ac Regulation (EC) No 1907/2006 concerning the Registratio Chemicals Specific target organ toxicity Substances of Very High Concern Technische Regeln für Gefahrstoffe (Deutschland) Toxic Substances Control Act (US) Time Weighted Average United Nations very Persistent and very Bio accumulative Workplace Hazardous Materials Information System (Can	and packaging of substances ation System) (US) ographs on the Evaluations of hungsgesellschaft (2011) S) Part 1910 Subpart Z) ct of 1986 in, Evaluation, Authorization a	and mixtures Carcinogenic Risks					
<ul> <li>Pulmona</li> <li>Toxicolog</li> <li>Inhalatio</li> <li>IARC Mc</li> <li>NIOSH C</li> <li>Exposure</li> <li>The cont</li> </ul>	erences and sources for data ry Response to Toner upon Chronic Inhalation Exposure in gy 17.280-299 (1991) Lung Clearance and Retention of Tor in Exposure in Rats, B. Bellmann, Fundamental and Applied onograph on the Evaluation of the Carcinogenic Risk of Che CURRENT INTELLIGENCE BULLETIN "Evaluation of Healt e to Titanium Dioxide DRAFT" ents are in accordance with Material Safety Data Sheet "Pk RA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku,	ner, Utilizing a Tracer Techniq d Toxicology 17.300-313 (199 emicals to Humans, Vol. 93 h Hazard and Recommendati K3013-TA-UT-02-EN"; 26/08/2	ue, during Chronic 1) on for Occupational					