



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

SDS Number:PK1010-TA-UT-02-ENIssue date:09/09/2016Revision date:26/08/2021Effective date:26/08/2021Version:02Replace version:01

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

1.1	Product identifier		
	Product name	Black Toner for	
		P-3522DW, P-3521 MFP, P-3527w MFP	
	Consumable name	PK-1010	
	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	Deelbögenkamp 4c 22297 Hamburg Germany	
1.4	Emergency telephon	e number +49 (0) 40 / 528490 (This number is available only during office hours)	
SECTION 2: Hazards identification			
2.4	Classification of the	aubatanaa ar miytura	
2.1		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.

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	ty Data Sh	<b>eet</b> on (EC) No 1907/2006 (R	EACH)		
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SECTIO	DN 3: Composi	ition/information on ing	gredients		
3.2	Mixtures				
	Chemical name	<u>9</u>	CAS No	Weight% Cla	assification (CLP)
	Polyester resin Magnetite Aluminium com Amorphous sili Titanium dioxid	npound ca	confidential confidential confidential 7631-86-9 13463-67-7	45-55 35-45 < 2 < 2 < 1 Ca	arc.2(H351)
	Information of	ingredients			
	(1) Substance,	which present a health	or environmenta	al hazard within the r	neaning of CLP:
		Titanium dioxide.			
	(2) Substance,	which are assigned Cor	mmunity workpla	ace exposure limits:	
None.					
	(3) Substance, REACH:	which are PBT or vPvB	in accordance v	with the criteria set o	ut in Annex XIII of
		None.			
	(4) Substance, REACH (S)	which are included in th VHC):	e list establishe	d in accordance with	n Article 59(1) of
		None.			
	See section 16	for the full text of the H	statements dec	lared above.	
SECTIO	DN 4: First aid	measures			
4.1	Description of	first aid measures			
	Inhalation:	Remove from exposure Consult a doctor in cas			of water.
	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. D Seek medical treatmer		glasses of water to o	dilute.





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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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6.4		other sections				
	See section 13	3 for disposal information.				
SECT	ION 7: Handlir	ng and storage				
7.1	Precautions f	or safe handling				
		t attempt to force open or destroy stallation guide of this product.	the toner container or unit.			
7.2	Conditions fo	or safe storage, including any i	ncompatibilities			
		the toner container or unit tightly away from fire. Keep out of the re		and dark place.		
7.3	Specific end	use(s)				
	No additional information available.					
SECT	ION 8: Exposu	re controls/personal protectio	n			
8.1	Control parar (Reference da					
	US ACGIH Th	reshold Limit Values (TWA)				
	Alumir	les: 10 mg/m³ (Inhalable particles nium insoluble compounds: 1 mg um dioxide: 10 mg/m³		particles)		
	US OSHA PE	L (TWA)				
	Amorp	les: 15 mg/m³ (Total dust) bhous silica: 80 mg/m³/%SiO₂ um dioxide: 15 mg/m³ (Total dust	5 mg/m³ (Respirable	fraction)		
	EU Occupatio 2009/161	onal exposure limits: Directive	(EC) 2000/39, (EC) 2006/15 a	nd (EU)		
	Not lis	ted.				
8.2	Exposure cor	ntrols				
	Appropriate e	engineering controls				
		al ventilator is not required under a well-ventilated area.	normal intended use.			
	Personal prot	tective equipment				
		ratory protection, eye protection, quired under normal intended use		protection are		
	Environmenta	al exposure controls				
1	No ad	ditional information available.				



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### SECTION 9: Physical and chemical properties

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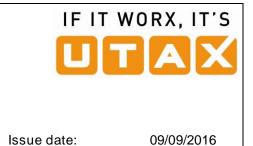
lr	nformation on basic physical and chem	nical properties	
	Appearance		
	Physical state	Solid (fine powder)	
	Colour	Black	
	Odour	Odourless	
	Odour threshold	No data available.	
	рН	No data available.	
	Melting point [°C]	100-120 (Toner)	
	Boiling point	No data available.	
	Flash point	No data available.	
	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> ]	1.5-1.8 (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	Chemical stability		
	This product is stable u	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	ition products are not to be produced.		
SECT	ION 11: Toxicological informa	ation		
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)		
	Dermal (LD <sub>50</sub> )	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/irritation	n		
	Acute eye irritation	Mild irritant (rabbit)*. (Toner)		
	Respiratory or skin sensitiza	ition		
	Skin sensitization	Non-sensitising (mouse)* (Toner)		
	Germ cell mutagenicity	Ames test is negative (Toner) *(based on test result of similar product)		





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# 11.1 Information of ingredients:

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

#### Carcinogenicity

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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 re-evaluated 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

# 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 (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

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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							
CC	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 i	information: Section 3						
Full text o	Full text of H statements under sections 3: H351: Suspected of causing cancer (inhalation)						
Abbreviatio	ons and acronyms						
ACGIH	American Conference of Governmental Industrial Hygienists 2016 TLVs and BEIs (Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices)						
CAS CLP DFG	Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures Deutsche Forschungsgemeinschaft						
EPA IARC	Environmental Protection Agency (Integrated Risk Information System) (US) International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks to Humans)						
MAK NTP	Maximale Árbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011) National Toxicology Program (Report on Carcinogens) (US)						
OSHA PBT	Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z) Persistent, Bio accumulative and Toxic						
PEL Proposition (	Permissible Exposure Limits 65 California, Safe Drinking Water and Toxic Enforcement Act of 1986						
REACH	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 (US)						
TWA UN	Time Weighted Average United Nations						
vPvB	very Persistent and very Bio accumulative						
WHMIS	Workplace Hazardous Materials Information System (Canada)						
	ire 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)							
(3) NI	RC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93 IOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational xposure to Titanium Dioxide DRAFT"						
(4) Th	rposure to manuff Dioxide DRAFT ne contents are in accordance with Material Safety Data Sheet "PK1010-TA-UT-02-EN"; 26/08/2021 of the YOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.						