



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

SDS Number:	PK3012-TA-UT-02-EN	Issue date:	12/09/2016
Revision date:	18/12/2017	Effective date:	18/12/2017
Version:	02	Replace version:	01

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

4		
1.1	Product identifier	
	Product name	Black Toner for
		P-5531 DN, P-6031 DN, P-5536i MFP, P-6036i MFP
	Consumable name	PK-3012
	Product form	Mixture
1.2.	Relevant identified u	uses 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 suppli	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 telephor	ne number +49 (0) 40 / 528490
		(This number is available only during office hours)
SECT	ION 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	
	Labelling according	to Regulation (EC) No 1272/2008 (CLP)
		Not applicable.
2.3	Other hazards	

Assessment of PBT/vPvB

No doto ovoilo

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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SECTION 3: Composition/inform	nation on ingredients		
Chemical name	CAS-No	[Weight %]	
Polyester resin Magnetite Wax Amorphous silica Titanium dioxide	confidential confidential confidential 7631-86-9 13463-67-7	40-50 35-45 1-5 < 2 < 1	
Information of ingredien	ſS		
(1) Substance, which present a health or environmental hazard within the meaning of CLP: None.			
(2) Substance, which are	assigned Community workp	lace exposure l	imits:
N	one.		
(3) Substance, which are REACH:	PBT or vPvB in accordance	with the criteria	a set out in Annex XIII of
N	one.		
(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 declared 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 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

Information on basic physical and chem	nical properties	
Appearance		
Physical state	Solid (fine powder)	
Colour	Black	
Odour	Odourless	
Odour threshold	No data available.	
pH	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 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> ]	1.5-2.0 (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

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	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)*		
	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.

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

	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: product name (section 1)							
Full text of H s	tatements under sections 3: Not a	applicable					
Abbreviations ar							
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)         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         Proposition 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       Substances Control Act (USA)         TWA       Time Weighted Average							
<ul> <li>Pulmon</li> <li>Toxicolo</li> <li>Inhalatio</li> <li>IARC M</li> <li>NIOSH</li> <li>Exposu</li> <li>The cor</li> </ul>	<ul> <li>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> </ul>						