

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

SDS Number: PK5018C-TA-UT-02-EN

Revision date: 15/09/2021

Version: 02

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

1.1		
	Product name	Cyan Toner for
		PC3562i MFP, PC3566i MFP, PC3562DN
	Consumable name	PK-5018C
	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

2.1	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.		

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Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)								
SDS Nu	umber: PK501	8C-TA-UT-02-EN		Issue date:	16/11/2017			
Revisio	on date: 15/09/2	2021		Effective dates	: 15/09/2021			
Versio	n: 02			Replace version	on: 01			
SECTIC	N 3: Composi	tion/information on ing	aredients					
3.2	Mixtures		<u>.</u>					
3.2	Chemical name	2	CAS No	Weight%	Classification (CLP)			
	Polyester resin	-	confidential	75-85				
	Organic pigmer	nt	confidential	1-5				
	Amorphous silie Titanium dioxid		7631-86-9 13463-67-7	1-5 < 1	Carc.2(H351)			
	Information of (1) Substance,	<b>ingredients</b> which present a health o	or environmenta	l hazard within tl	he meaning of CLP:			
		Titanium dioxide.						
	(2) Substance,	which are assigned Con	nmunity workpla	ce exposure lim	its:			
		None.						
	(3) Substance, which are PBT or vPvB in accordance with the criteria set out in Annex XIII of REACH:			et out in Annex XIII of				
		None.						
	(4) Substance, REACH (S)	which are included in th VHC):	e list established	l in accordance	with Article 59(1) of			
		None.						
	See section 16	for the full text of the H	statements decla	ared above.				
SECTIC	ON 4: First aid	measures						
4.1	Description of	first aid measures						
	Inhalation:	Remove from exposure Consult a doctor in cas						
	Skin contact:	Wash with soap and wa	ater.					
	Eye contact:	Flush with water immed	diately and see a	a doctor if irritatir	ng.			
	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. 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

#### US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m<sup>3</sup> (Inhalable 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> Titanium dioxide: 15 mg/m<sup>3</sup> (Total dust) 5 mg/m<sup>3</sup> (Respirable fraction)

3 mg/m<sup>3</sup> (Respirable particles)

# 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.

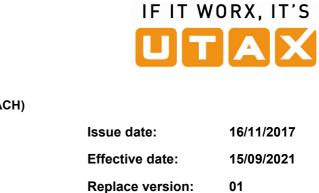
#### Personal protective equipment

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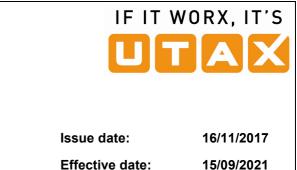
# **SECTION 9: Physical and chemical properties**

Information on basic physical and chen	nical properties
Appearance	
Physical state	Solid (fine powder)
Colour	Cyan
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> ]	1.2-1.4 (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 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 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 classification criteria listed below are not met. Acute toxicity > 2000 mg/kg (rat)\* (Toner) Oral (LD<sub>50</sub>) No data available (Toner). Dermal (LD<sub>50</sub>) Inhalation $(LC_{50}(4hr))$ > 5.0 mg/l (rat)\* (Toner) Skin corrosion/irritation Acute skin irritation Non-irritant (rabbit)\* (Toner) Serious eye damage/irritation Acute eye irritation Minimal irritant (rabbit)\* (Toner) Respiratory or skin sensitization 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:

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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 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 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). 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



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#### **SECTION 12:** Ecological information

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#### 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.

#### 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).

#### 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.

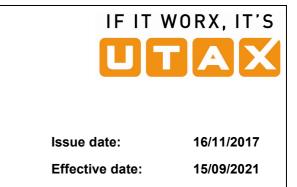
#### **Canada regulations**

This product is not a WHMIS-controlled product, since we consider it as a manufactured article.

#### 15.2 Chemical Safety Assessment

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SECTION 16: Other information					
To the best of our knowledge, the information contained h cannot assume any liability whatsoever for the accuracy of contained herein. The contents and format of this SDS ar (EC) No 1907/2006, Annex II as amended by Regulation Revision information: Section 3	or completeness of the re in accordance with <b>F</b>	e information Regulation			
	d of causing cancer (in	halation)			
Abbreviations and acronyms	<b>3</b> • • • • (	,			
<ul> <li>ACGIH American Conference of Governmental Industrial Hygienists 2016 TLVs and BEIs (Threshold Limit Values for Chemical St Exposure Indices)</li> <li>CAS Chemical Abstracts Service</li> <li>CLP Regulation (EC) No 1272/2008 on classification, labelling and DFG Deutsche Forschungsgemeinschaft</li> <li>EPA Environmental Protection Agency (Integrated Risk Information IARC International Agency for Research on Cancer (IARC Monogra to Humans)</li> <li>MAK Maximale Arbeitsplatzkonzentration der Deutschen Forschun NTP National Toxicology Program (Report on Carcinogens) (US)</li> <li>OSHA Occupational Safety and Health Administration (29 CFR Part PBT Persistent, Bioaccumulative and Toxic</li> <li>PEL Permissible Exposure Limits</li> <li>Proposition 65 California, Safe Drinking Water and Toxic Enforcement Act of REACH Regulation (EC) No 1907/2006 concerning the Registration, E Chemicals</li> <li>STOT Specific target organ toxicity</li> <li>SVHC Substances of Very High Concern</li> <li>TRGS 905 Technische Regeln für Gefahrstoffe (Deutschland)</li> <li>TSCA Toxic Substances Control Act (US)</li> <li>TWA Time Weighted Average</li> <li>UN United Nations</li> <li>vPvB very Persistent and very Bioaccumulative</li> <li>WHMIS Workplace Hazardous Materials Information System (Canada</li> <li>Key literature references and sources for data</li> <li>Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rat Toxicology 17.280-299 (1991) Lung Clearance and Retention of Toner, Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Tc</li> <li>(2) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemic</li> <li>(3) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health H Exposure to Titanium Dioxide DRAFT"</li> <li>(4) The contents are in accordance with Material Safety Data Sheet "PK50 KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Os</li> </ul>	d packaging of substances a n System) (US) aphs on the Evaluations of C ngsgesellschaft (2011) : 1910 Subpart Z) f 1986 Evaluation, Authorization an a) ats, H. Muhle et al., Fundam, Utilizing a Tracer Techniqu pxicology 17.300-313 (1991) cals to Humans, Vol. 93 fazard and Recommendatio 018C-TA-UT-02-EN"; 15/09/2	and mixtures Carcinogenic Risks d Restriction of ental and Applied le, during Chronic			





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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		
		PC3562i MFP, PC3566i MFP, PC3562DN		
	Consumable name	PK-5018K		
	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

2.1	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.

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SECTION	3: Composi	tion/information on ing	aredients				
	lixtures		<b>J</b>				
	hemical name	9	CAS No	Weight%	Classification (CLP)		
	olyester resin	-	confidential	70-80	<u> </u>		
	arbon Black	e conolymer	1333-86-4 confidential	5-10 1-5			
A	morphous silie	ca	7631-86-9	1-5	0 0/(1054)		
-	itanium dioxid	-	13463-67-7	< 1	Carc.2(H351)		
	<b>nformation of</b> 1) Substance,	which present a health of	or environmenta	l hazard within t	he meaning of CLP:		
		Titanium dioxide.					
(2	2) Substance,	which are assigned Con	nmunity workpla	ice exposure lim	nits:		
		None.					
(3	B) Substance, REACH:	which are PBT or vPvB	in accordance v	vith the criteria s	set out in Annex XIII of		
		None.					
(4	4) Substance, REACH (S)	which are included in th /HC):	e list established	d in accordance	with Article 59(1) of		
		None.					
S	ee section 16	for the full text of the H	statements decl	ared above.			
SECTION	4: First aid	measures					
4.1 D	escription of	first aid measures					
Ir	nhalation:	Remove from exposure Consult a doctor in cas					
S	kin contact:	Wash with soap and wa	ater.				
E	ye contact:	Flush with water immediately and see a doctor if irritating.					
Ir	ngestion:	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.

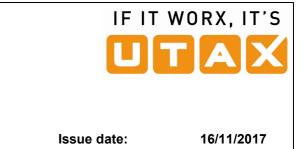
#### 6.2 Environmental precautions

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. 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

#### US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m³ (Inhalable particles)3 mg/nCarbon Black: 3 mg/m³ (Inhalable fraction)Titanium dioxide: 10 mg/m³

#### **US OSHA PEL (TWA)**

Particles: 15 mg/m<sup>3</sup> (Total dust) Carbon Black: 3.5 mg/m<sup>3</sup> Amorphous silica: 80 mg/m<sup>3</sup>/%SiO<sub>2</sub> Titanium dioxide: 15 mg/m<sup>3</sup> (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.

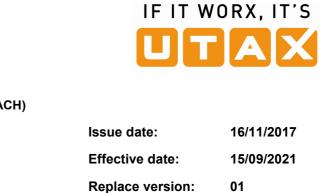
#### **Environmental exposure controls**

No additional information available.

3 mg/m<sup>3</sup> (Respirable particles)

5 mg/m<sup>3</sup> (Respirable fraction)





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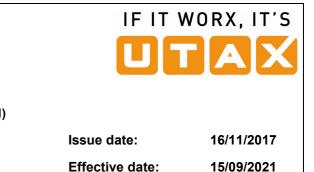
#### **SECTION 9: Physical and chemical properties**

Information on basic physical and chemical properties Appearance		
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> ]	1.2-1.4 (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 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.

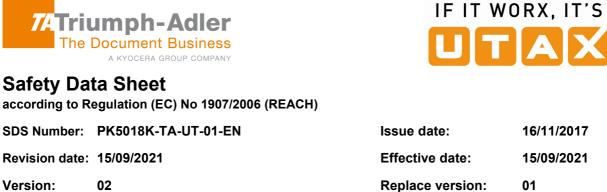
#### 10.6 Hazardous decomposition products

Hazardous decomposition products are not to be produced.

# SECTION 11: Toxicological information

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





#### 11.1 Information of ingredients:

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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 and Carbon Black) 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 and Carbon Black 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). The evaluation of Carbon Black is based upon the development of lung tumours in rat receiving chronic inhalation exposures to free Carbon Black at level that induce particle overload of the lung. The studies performed in animal models other than rats have not demonstrated an association between Carbon Black and lung tumours. Moreover, a two years cancer bioassay using a typical toner preparation containing Carbon Black demonstrated no association between toner exposure and tumour development in rats (1). 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



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Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)		
SDS Number: PK5018K-TA-UT-01-EN	Issue date:	16/11/2017
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Version:

#### **SECTION 12:** Ecological information

02

#### 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.

#### 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).

#### 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.





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

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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.

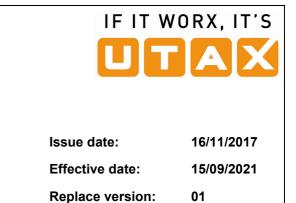
#### **Canada regulations**

This product is not a WHMIS-controlled product, since we consider it as a manufactured article.

#### 15.2 Chemical Safety Assessment

	Document Business A KYOCERA GROUP COMPANY ta Sheet		ORX, IT'S
according to R	egulation (EC) No 1907/2006 (REACH)		
SDS Number:	PK5018K-TA-UT-01-EN	Issue date:	16/11/2017
Revision date:	15/09/2021	Effective date:	15/09/2021
Version:	02	Replace version:	01
SECTION 16:	Other information		
cannot contain (EC) N	best of our knowledge, the information contained assume any liability whatsoever for the accurac led herein. The contents and format of this SDS o 1907/2006, Annex II as amended by Regulation nation: Section 3	y or completeness of th are in accordance with	e information Regulation
		ed of causing cancer (ir	nhalation)
Abbreviations and		J V	,
ACGIH CAS CLP DFG EPA IARC MAK NTP OSHA PBT PEL Proposition 65 REACH STOT SVHC TRGS 905 TSCA TWA UN vPvB WHMIS Key literature refe	2016 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) (US)         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) (US)         OSHA       Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)         PBT       Persistent, Bioaccumulative 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 Ontrol Act (US)         TWA       Time Weighted Average         UN       United Nations         VeVB       Very Persistent and very Bioaccumulative         WHMIS<		
(4) Exposure	CURRENT INTELLIGENCE BULLETIN "Evaluation of Health 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, 0	5018K-TA-UT-2-EN"; 15/09/2	





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

SDS Number: PK5018M-TA-UT-02-EN

Revision date: 15/09/2021

Version: 02

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

1.1	Product identifier		
Product name		Magenta Toner for	
	PC3562i MFP, PC3566i MFP, PC3562DN		
	Consumable name	PK-5018M	
	Product form	Mixture	
1.2	1.2 Relevant identified 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 supplie	ier 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 telephor	ne 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.

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0	_	ERA GROUP COMPANY			
	ty Data Sh	<b>eet</b> m (EC) No 1907/2006 (RI	EACH)		
SDS Nu	umber: PK501	8M-TA-UT-02-EN		Issue date:	16/11/2017
Revisio	on date: 15/09/2	2021		Effective date	: 15/09/2021
Versio	n: 02			Replace version	on: 01
SECTIC	N 3: Composi	tion/information on ing	gredients		
3.2	Mixtures		-		
0.2	Chemical name	2	CAS No	Weight%	Classification (CLP)
	Polyester resin	(2 kinds)	confidential	75-85	
	Organic pigmer Amorphous sili		confidential 7631-86-9	1-5 1-5	
	Titanium dioxid		13463-67-7	< 1	Carc.2(H351)
	Information of (1) Substance,	<b>ingredients</b> which present a health o	or environmenta	l hazard within t	he meaning of CLP:
		Titanium dioxide.			
	(2) Substance,	which are assigned Con	nmunity workpla	ce exposure lim	its:
		None.			
	(3) Substance, REACH:	which are PBT or vPvB	in accordance w	vith the criteria s	et out in Annex XIII of
	None.				
	(4) Substance, REACH (S)	which are included in the VHC):	e list established	d in accordance	with Article 59(1) of
		None.			
	See section 16	for the full text of the H	statements decla	ared above.	
SECTIO	ON 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 wa	ater.		
	Eye contact:	Flush with water immed	diately and see a	a doctor if irritatin	ng.
	Ingestion:	Rinse out the mouth. D Seek medical treatmen		glasses of water	to dilute.





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

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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. 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

#### US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m<sup>3</sup> (Inhalable 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> Titanium dioxide: 15 mg/m<sup>3</sup> (Total dust) 5 mg/m<sup>3</sup> (Respirable fraction)

3 mg/m<sup>3</sup> (Respirable particles)

# 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.

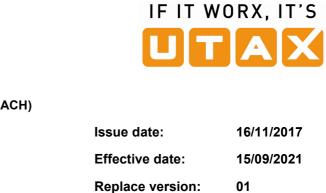
#### Personal protective equipment

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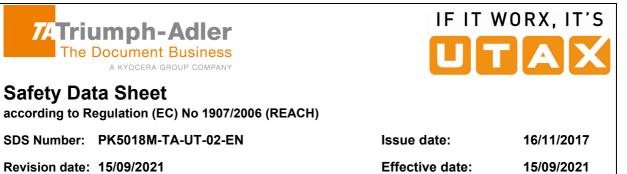
#### **SECTION 9: Physical and chemical properties**

Information on basic physical and chemical properties Appearance		
Colour	Magenta	
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> ]	1.2-1.4 (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 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

02

SDS Number: PK5018M-TA-UT-02-EN

#### 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.

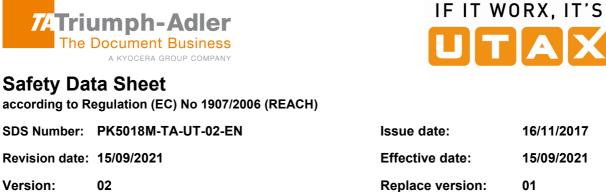
#### 10.6 Hazardous decomposition products

Hazardous decomposition products are not to be produced.

# **SECTION 11:** Toxicological information

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





#### 11.1 Information of ingredients:

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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 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 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). 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



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#### **SECTION 12:** Ecological information

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#### 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.

#### 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).

#### 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.





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

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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.

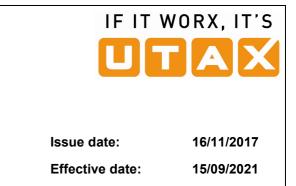
#### **Canada regulations**

This product is not a WHMIS-controlled product, since we consider it as a manufactured article.

#### 15.2 Chemical Safety Assessment

	umph-Adler Document Business A KYOCERA GROUP COMPANY		ORX, IT'S	
Safety Da	ta Sheet Regulation (EC) No 1907/2006 (REACH)			
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Revision date:	15/09/2021	Effective date:	15/09/2021	
Version:	02	Replace version:	01	
SECTION 16:	Other information			
cannot contair	best of our knowledge, the information containe assume any liability whatsoever for the accurac ned herein. The contents and format of this SDS to 1907/2006, Annex II as amended by Regulation	cy or completeness of the are in accordance with	ne information Regulation	
Revision inform	nation: Section 3			
Full text of H st	tatements under sections 3: H351: Suspect	ted of causing cancer (i	inhalation)	
Abbreviations an	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 a 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, Bioaccumulative and Toxic Permissible Exposure Limits California, Safe Drinking Water and Toxic Enforcement Ac Regulation (EC) No 1907/2006 concerning the Registration 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 Bioaccumulative Workplace Hazardous Materials Information System (Cana	I Substances and Physical A and packaging of substances ation System) (US) ographs on the Evaluations of hungsgesellschaft (2011) S) art 1910 Subpart Z) at of 1986 n, Evaluation, Authorization a	and mixtures f Carcinogenic Risks	
-	erences 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 "PK5018M-TA-UT-02-EN"; 15/09/2021 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.</li> </ol>				





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Replace version:

Safety Data Sheet

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

SDS Number: PK5018Y-TA-UT-02-EN

Revision date: 15/09/2021

Version: 02

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

1.1	Product identifier	
	Product name	Yellow Toner for
		PC3562i MFP, PC3566i MFP, PC3562DN
	Consumable name PK-5018Y	
	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 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	Deelbögenkamp 4c 22297 Hamburg Germany
1.4	Emergency telephor	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.

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	The Docum	ent Business era group company			TAX		
	Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)						
SDS N	umber: PK501	8Y-TA-UT-02-EN		Issue date:	16/11/2017		
Revisio	on date: 15/09/2	2021		Effective date	e: 15/09/2021		
Versio	n: 02			Replace versi	ion: 01		
SECTIC	ON 3: Composi	tion/information on ing	gredients				
3.2	Mixtures	•	5				
5.2	Chemical name	9	CAS No	Weight%	Classification (CLP)		
	Polyester resin	_	confidential	75-85			
	Organic pigmer Amorphous sili		confidential 7631-86-9	1-5 1-5			
	Titanium dioxid		13463-67-7	< 1	Carc.2(H351)		
	Information of (1) Substance,	<b>ingredients</b> which present a health o	or environmenta	l hazard within t	the meaning of CLP:		
		Titanium dioxide.					
	(2) Substance,	which are assigned Cor	nmunity workpla	ice exposure lim	nits:		
	None.						
	(3) Substance, which are PBT or vPvB in accordance with the criteria set out in Annex XIII of REACH:						
	None.						
	(4) Substance, REACH (S)	which are included in th VHC):	e list established	d in accordance	with Article 59(1) of		
		None.					
	See section 16	for the full text of the H	statements decl	ared above.			
SECTIO	ON 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 immed	diately and see a	a doctor if irritati	ng.		
	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. 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

#### US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m<sup>3</sup> (Inhalable 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> Titanium dioxide: 15 mg/m<sup>3</sup> (Total dust) 5 mg/m<sup>3</sup> (Respirable fraction)

3 mg/m<sup>3</sup> (Respirable particles)

# 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.

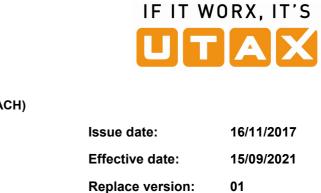
#### Personal protective equipment

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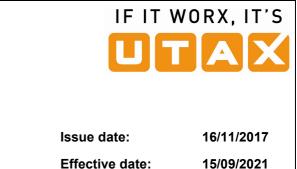
#### **SECTION 9: Physical and chemical properties**

Information on basic physical and chen	nical properties	
Appearance		
Physical state	Solid (fine powder)	
Colour	Yellow	
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/cm3]	1.2-1.4 (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 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 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 classification criteria listed below are not met. Acute toxicity > 2000 mg/kg (rat)\* (Toner) Oral (LD<sub>50</sub>) No data available (Toner). Dermal (LD<sub>50</sub>) Inhalation $(LC_{50}(4hr))$ > 5.0 mg/l (rat)\* (Toner) Skin corrosion/irritation Acute skin irritation Non-irritant (rabbit)\* (Toner) Serious eye damage/irritation Acute eye irritation Minimal irritant (rabbit)\* (Toner) Respiratory or skin sensitization 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:

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

#### Carcinogenicity

02

#### 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 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). 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



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#### **SECTION 12:** Ecological information

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#### 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.

#### 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).

#### 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

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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 information: Section 3Full text of H statements under sections 3:H351: Suspected of causing cancer (inhalation)					
Abbreviations and 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 a 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, Bioaccumulative 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 Bioaccumulative Workplace Hazardous Materials Information System (Cana	I Substances and Physical Ag and packaging of substances ation System) (US) ographs on the Evaluations of hungsgesellschaft (2011) S) art 1910 Subpart Z) et of 1986 n, Evaluation, Authorization a	and mixtures Carcinogenic Risks		
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 "PK5018Y-TA-UT-02-EN"; 15/09/2021 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.</li> </ol>					