



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

SDS Number: PK5015C-TA-UT-01-EN

01

Revision date: -

Effective date:

22.07.2016

18.08.2016

Version:

Replace version: -

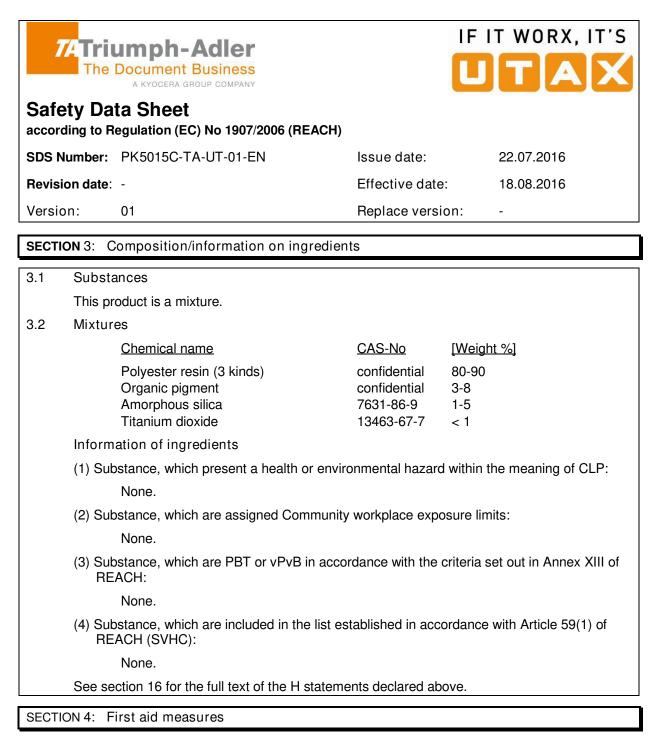
Issue date:

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

1.1	Product identifier		
	Product name	Cyan Toner for	
		P-C2655w MFP, P-C2650DW	
	Consumable name	PK-5015C	
	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	r of the safety data sheet	
	Manufacturer	KYOCERA Document Solutions Inc.	
	Address	1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan	
	Supplier	TA Triumph-Adler GmbH	
	Address	Ohechaussee 235 22848 Norderstedt 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.



4.1	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

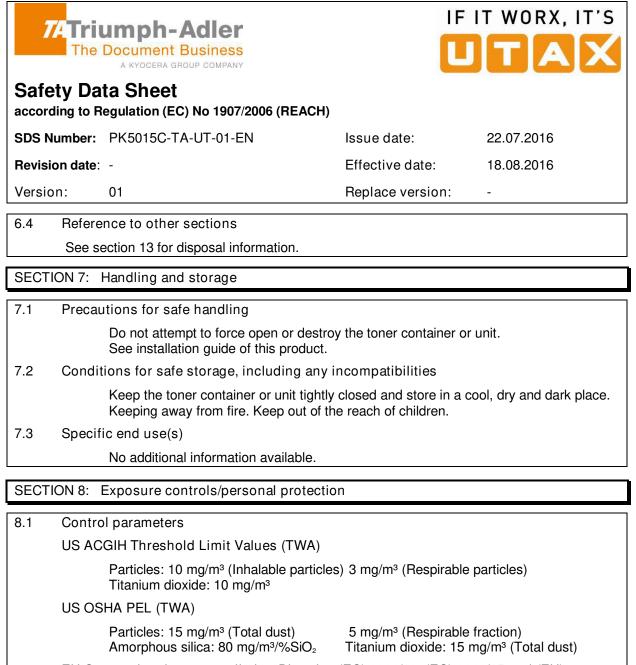
No additional information available.

SECTION 5: Firefighting measures

5.1	Extinguishing media
	Suitable extinguishing media
	Water spray, foam, powder, CO2 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.

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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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

9.1 Ir	nformation on basic physical and chem	nical properties	
	Appearance		
	Physical state	Solid (fine powder)	
	Colour	Cyan	
	Odour	Odourless	
	Odour threshold	No data available.	
	рН	No data available.	
	Melting range [°C]	100-120 (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> ]	1.2-1.4 (Toner)	
	Solubility in water	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.

#### 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.



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10.4 Condi	tions to avoid			
	None specified.			
10.5 Incom	patible materials			
	None specified.			
10.6 Hazaro	dous decomposition p	roducts		
	Hazardous decomposi		e not to be produced.	
	•	•	•	
SECTION 11:	Toxicological informa	ation		
11.1 Inform	ation on toxicological	effects		
Based	on available data, the c	lassification crite	ria listed below are no	ot met.
Acute	toxicity			
	Oral (LD <sub>50</sub> )	>2000 mg/kg (	rat)*	
	Dermal (LD <sub>50</sub> )	No data availa	ole. (Toner)	
	Inhalation $(LC_{50}(4hr))$	> 5.10 mg/l (ra	t)*	
Skin c	orrosion/irritation			
	Acute skin irritation	Non-irritant (ra	bbit)*.	
Seriou	is eye damage/irritatio	n		
	Acute eye irritation	Mild irritant (ra	obit)*.	
Respir	atory or skin sensitiza			
	Skin sensitization	Non-sensitizer	(mouse)*.	
Germ	cell mutagenicity	Ames test is ne	egative. (Toner)	
			(based on test result	of similar product) (Toner)
Inform	ation of ingredients:			
	No mutagen according	to MAK, TRGS	905 und (EC) No 1272	2/2008 Annex VI.
	ogenicity			
	ation of ingredients:			
No car	cinogen or potential car	cinogen (except	Titanium dioxide) acc	ording to IARC, Japan

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.



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11.1 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 tests 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.

#### SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bio accumulative potential

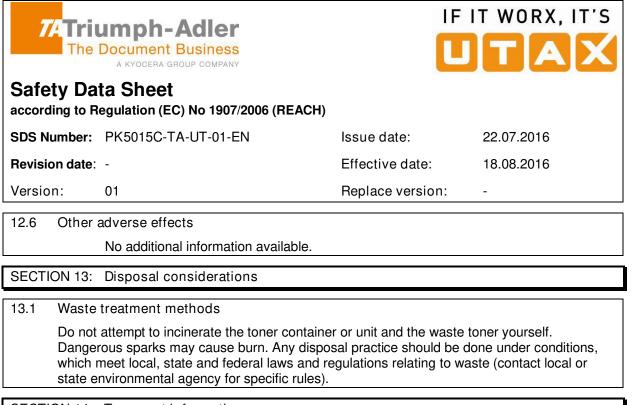
No data available.

#### 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

No data available.



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. 14.6 Special precautions for user No additional information available. 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.





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#### 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.			
		plicable	
Abbreviations and	d acronyms		
ACGIH TLVs and BEIs CAS CLP DFG EPA IARC MAK NTP OSHA PBT PEL	TLVs and BEIsThreshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure IndicesCASChemical Abstracts ServiceCLPRegulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixturesDFGDeutsche ForschungsgemeinschaftEPAEnvironmental Protection Agency (Integrated Risk Information System) (USA)IARCInternational Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks to Humans)MAKMaximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)NTPNational Toxicology Program (Report on Carcinogens) (USA)OSHAOccupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)PBTPersistent, Bio accumulative and Toxic		
PELPermissible Exposure LimitsREACHRegulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of ChemicalsProposition 65California, Safe Drinking Water and Toxic Enforcement Act of 1986TRGS 905Technische Regeln für Gefahrstoffe (Deutschland)SVHCSubstances of Very High ConcernTSCAToxic Substances Control Act (USA)TWATime Weighted AverageUNUnited NationsvPvBvery Persistent and very Bio accumulativeWHMISWorkplace Hazardous Materials Information System (Canada)Key literature 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)

(2) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93

(3) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"

(4) The contents are in accordance with Material Safety Data Sheet "PK5015C-TA-UT-01-EN"; 22/07/2016 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.





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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
		P-C2655w MFP, P-C2650DW
	Consumable name	PK-5015K
	Product form	Mixture
1.2.	Relevant identified u	ises 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 accore	ding 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/v	PvB
		No data available.
	See section 4 and 11	for information on health effects and symptoms.

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 (REA	ACH)		
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SECTION 3: Composition/information on ingre	odionts		
Section 5. Composition/information on ingre	eulents		
3.1 Substances			
This product is a mixture.			
3.2 Mixtures			
Chemical name	CAS-No	[Weight %]	
Carbon Black 1 Amorphous silica 7	confidential 333-86-4 7631-86-9 3463-67-7	80-90 3-8 1-5 <1	
Information of ingredients			
(1) Substance, which present a health or	environmental	l hazard within t	he meaning of CLP:
None.			
(2) Substance, which are assigned Comn	nunity 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:			
None.			
(4) Substance, which are included in the list established in accordance with Article 59(1) of REACH (SVHC):			with Article 59(1) of
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			

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, CO2 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

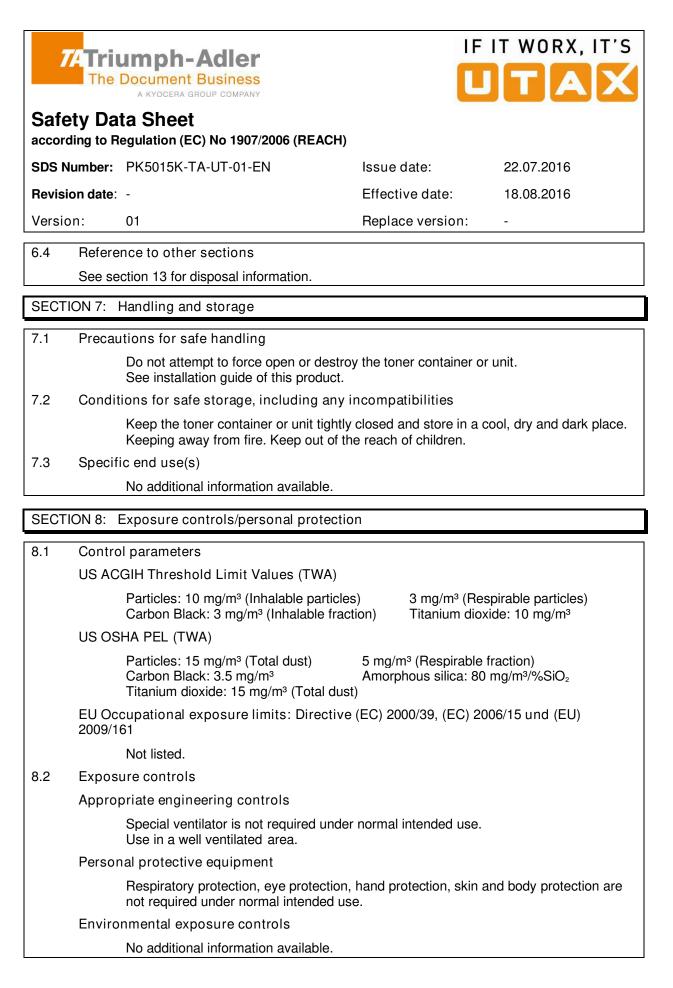
Pay attention not to blow away dust. Drain water off around and decrease the atmosphere temperature to extinguish the fire.

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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#### SECTION 9: Physical and chemical properties

Information on basic physical and chem	nical properties	
Appearance		
Physical state	Solid (fine powder)	
Colour	Black	
Odour	Odourless	
Odour threshold	No data available.	
рН	No data available.	
Melting range [°C]	100-120 (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> ]	1.2-1.4 (Toner)	
Solubility in water	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.
SECT	ION 11: Toxicological information

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)*	
	Dermal (LD <sub>50</sub> )	No data available. (Toner)	
	Inhalation (LC50(4hr))	>5.09 mg/l (rat)*	
	Skin corrosion/irritation		
	Acute skin irritation	Non-irritant (rabbit)*.	
	Serious eye damage/irritatio	n	
	Acute eye irritation	Mild irritant (rabbit)*.	
	Respiratory or skin sensitization		
	Skin sensitization	Non-sensitizer (mouse)*.	
	Germ cell mutagenicity	Ames test is negative. (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 and Carbon Black) 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 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. In addition, 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.
or or repoulde expectere	

Aspiration hazard No data available.

Chronic effects

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16 mg/m<sup>3</sup>) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m<sup>3</sup>) exposure group (1). However, no pulmonary change was reported in the lowest (1mg/m<sup>3</sup>) exposure group, the most relevant level to potential human exposures.

Other information

No data available.



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#### SECTION 12: Ecological information

12.1	Toxicity
	No data available.
12.2	Persistence and degradability
	No data available.
12.3	Bio accumulative potential
	No data available.
12.4	Mobility in soil
	No data available.
12.5	Results of PBT and vPvB assessment
	No data available.
12.6	Other adverse effects
	No additional information available.

#### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Do not attempt to incinerate the toner container or unit and the waste toner yourself. Dangerous sparks may cause burn. Any disposal practice should be done under conditions, which meet local, state and federal laws and regulations relating to waste (contact local or state environmental agency for specific rules).

#### SECTION 14: Transport information

- 14.1 UN-number
  - None.
- 14.2 UN Proper shipping name

None.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.

14.5 Environmental hazards

None.





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#### 14.6 Special precautions for user

No additional information available.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 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.



Safety Da	ata Sheet		
according to F	Regulation (EC) No 1907/2006 (REAC	CH)	
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SECTION 16:	Other information		
canno contai	e best of our knowledge, the informat t assume any liability whatsoever for ned herein. The contents and format No 1907/2006, Annex II as amended	the accuracy or complete of this SDS are in accordate	ness of the information ance with Regulation
Full text of H s	statements under sections 3: No	ot applicable	
Abbreviations ar	nd acronyms		
ACGIH TLVs and BEIs CAS CLP DFG EPA IARC	American Conference of Governmental Ind Threshold Limit Values for Chemical Subst Chemical Abstracts Service Regulation (EC) No 1272/2008 on classific Deutsche Forschungsgemeinschaft Environmental Protection Agency (Integrate International Agency for Research on Cano to Humans)	ances and Physical Agents and E ation, labelling and packaging of ed Risk Information System) (US	substances and mixtures
MAK NTP OSHA PBT PEL REACH	Maximale Arbeitsplatzkonzentration der De National Toxicology Program (Report on Ca Occupational Safety and Health Administra Persistent, Bio accumulative and Toxic Permissible Exposure Limits Regulation (EC) No 1907/2006 concerning Chemicals	arcinogens) (USA) tion (29 CFR Part 1910 Subpart :	Z)
Proposition 65 TRGS 905 SVHC TSCA TWA UN vPvB WHMIS	California, Safe Drinking Water and Toxic E Technische Regeln für Gefahrstoffe (Deuts Substances of Very High Concern Toxic Substances Control Act (USA) Time Weighted Average United Nations very Persistent and very Bio accumulative Workplace Hazardous Materials Informatio	chland)	
Key literature ref	ferences and sources for data		
(1) Pulmon	ary Besponse to Toner upon Chronic Inhalati	on Exposure in Bats H Muble et	al Fundamental and Applied

(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)

(2) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93

(3) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"

(4) The contents are in accordance with Material Safety Data Sheet "PK5015K-TA-UT-01-EN"; 22/07/2016 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.





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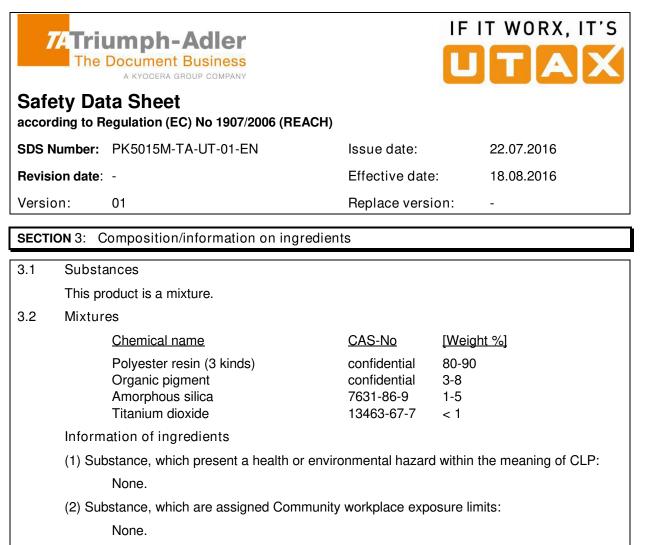
Issue date:22.07.2016Effective date:18.08.2016Replace version:-

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

1.1	Product identifier	
	Product name	Magenta Toner for
		P-C2655w MFP, P-C2650DW
	Consumable name	PK-5015M
	Product form	Mixture
1.2.	Relevant identified u	ises 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)

#### 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.



(3) Substance, which are PBT or vPvB in accordance with the criteria set out in Annex XIII of REACH:

None.

(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	f 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.





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

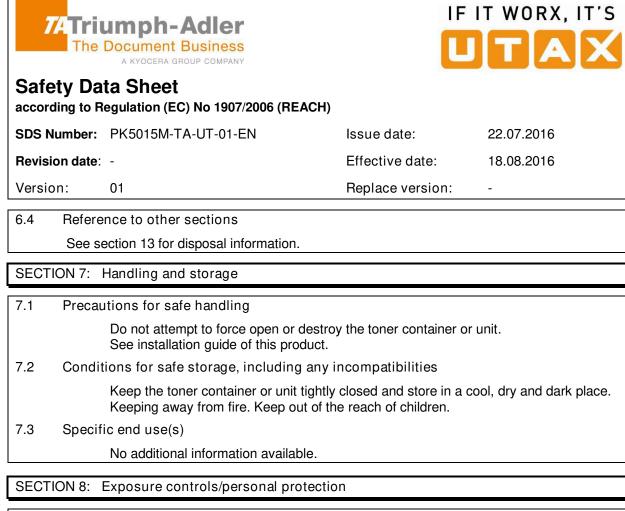
No additional information available.

#### 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.
SECT	ION 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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#### 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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18.08.2016

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Replace version:

#### SECTION 9: Physical and chemical properties

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9.1 lı	nformation on basic physical and chem	nical properties		
	Appearance			
	Physical state	Solid (fine powder)		
	Colour	Magenta		
	Odour	Odourless		
	Odour threshold	No data available.		
	рН	No data available.		
	Melting range [°C]	100-120 (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> ]	1.2-1.4 (Toner)		
	Solubility in water	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.

#### 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.



Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)				
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10.4 Condi	tions to avoid			
	None specified.			
10.5 Incom	patible materials			
	None specified.			
10.6 Hazar	dous decomposition p	roducts		
	Hazardous decomposi	ition products ar	e not to be produced.	
SECTION 11:	Toxicological informa	ation		
11.1 Inform	nation on toxicological	effects		
Based	l on available data, the c	lassification crite	eria listed below are no	t met.
Acute	toxicity			
	Oral (LD <sub>50</sub> )	>2000 mg/kg (	rat)*	
	Dermal ( $LD_{50}$ ) No data available. (Toner)			
Inhalation (LC <sub>50</sub> (4hr)) > 5.08 mg/l (rat)*			ble. (Toner)	
			. ,	
Skin d			. ,	
Skin d	Inhalation (LC <sub>50</sub> (4hr))		tt)*	
	Inhalation (LC50(4hr))	> 5.08 mg/l (ra Non-irritant (ra	tt)*	
	Inhalation (LC <sub>50</sub> (4hr)) corrosion/irritation Acute skin irritation	> 5.08 mg/l (ra Non-irritant (ra	ıt)* Ibbit)*.	

Respiratory or skin sensitization

Skin sensitization	Non-sensitizer (mouse)*.
Germ cell mutagenicity	Ames test is negative. (Toner)

\*(based on test result of similar product) (Toner)

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.



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# IF IT WORX, IT'S

according to Regulation (EC) No 1907/2006 (REACH)			
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11.1 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 tests 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.

#### SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bio accumulative potential

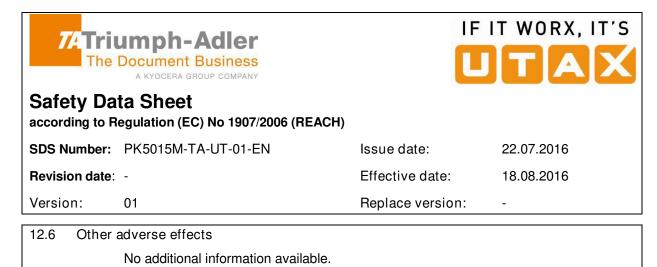
No data available.

#### 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

No data available.



#### 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-numberNone.14.2 UN proper shipping name

None.

14.3 Transport hazard class(es)

None.

#### 14.4 Packing group

None.

14.5 Environmental hazards

None.

- 14.6 Special precautions for user
  - No additional information available.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.





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<u> </u>		-	

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.



### IF IT WORX, IT'S UTAX

Safety Da	ta Sheet Regulation (EC) No 1907/2006 (REACH)		
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SECTION 16:	Other information		
cannot contair (EC) N SDSs.	best of our knowledge, the information of assume any liability whatsoever for the hed herein. The contents and format of t lo 1907/2006, Annex II as amended by f tatements under sections 3: Not ap	accuracy or completene his SDS are in accordan Regulation (EU) No 453/	ess of the information ce with Regulation
Abbreviations an		plicable	
ACGIH TLVs and BEIs CAS CLP DFG EPA IARC	American Conference of Governmental Industria Threshold Limit Values for Chemical Substances Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, Deutsche Forschungsgemeinschaft Environmental Protection Agency (Integrated Ris International Agency for Research on Cancer (IA to Humans)	s and Physical Agents and Bio Iabelling and packaging of su sk Information System) (USA)	bstances and mixtures
MAKMaximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)NTPNational Toxicology Program (Report on Carcinogens) (USA)OSHAOccupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)PBTPersistent, Bio accumulative and ToxicPELPermissible Exposure LimitsREACHRegulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of ChemicalsProposition 65California, Safe Drinking Water and Toxic Enforcement Act of 1986			
TRGS 905 SVHC TSCA	Technische Regeln für Gefahrstoffe (Deutschlar Substances of Very High Concern Toxic Substances Control Act (USA)		

- Toxic Substances Control Act (USA) TWA Time Weighted Average
- UN United Nations
- vPvB very Persistent and very Bio accumulative WHMIS Workplace Hazardous Materials Information System (Canada)

Key literature references and sources for data

- Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, H. Muhle et al., Fundamental and Applied (1) 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)
- (2) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93

NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational (3) Exposure to Titanium Dioxide DRAFT"

(4) The contents are in accordance with Material Safety Data Sheet "PK5015M-TA-UT-01-EN"; 22/07/2016 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.





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

SDS Number: PK5015Y-TA-UT-01-EN

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Revision date: -

Version:

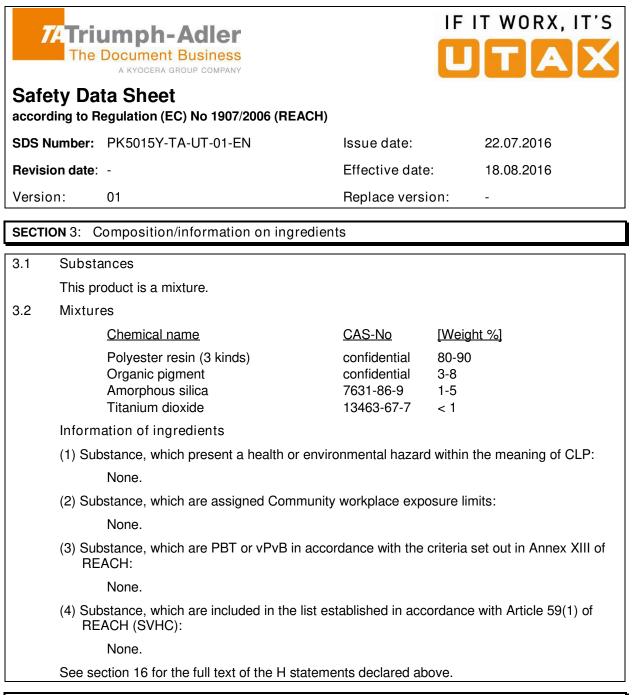
Issue date:22.07.2016Effective date:18.08.2016Replace version:-

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

1.1	Product identifier	
	Product name	Yellow Toner for
		P-C2655w MFP, P-C2650DW
	Consumable name	PK-5015Y
	Product form	Mixture
1.2.	Relevant identified u	ses of the substance or mixture and uses advised against
	Identified uses	The image formation of our electrophotographic equipment. Other uses are not recommended.
1.3	Details of the supplie	er of the safety data sheet
	Manufacturer	KYOCERA Document Solutions Inc.
	Address	1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan
	Supplier	TA Triumph-Adler GmbH
	Address	Ohechaussee 235 22848 Norderstedt Germany
1.4	Emergency telephon	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.



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

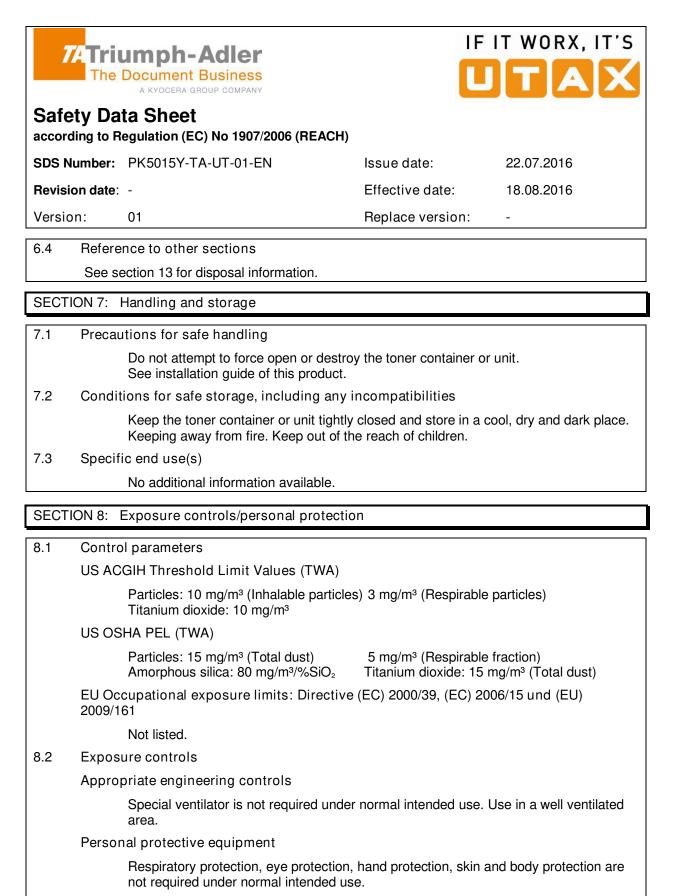
No additional information available.

SECTION 5: Firefighting measures

5.1	Extinguishing media
	Suitable extinguishing media
	Water spray, foam, powder, CO2 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.
SECT	ION 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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Environmental exposure controls

No additional information available.





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

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Replace version:

#### SECTION 9: Physical and chemical properties

Information on basic physical	and chemical properties
Appearance	
Physical state	Solid (fine powder)
Colour	Yellow
Odour	Odourless
Odour threshold	No data available.
рН	No data available.
Melting range [°C]	100-120 (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 explosiv	ve limit No data available.
Lower flammability or explosiv	ve limit No data available.
Vapour pressure	No data available.
Vapour density	No data available.
Relative density [g/m <sup>3</sup> ]	1.2-1.4 (Toner)
Solubility in water	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.

#### 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.



	A KYOCERA GROUP COMPANY	1			
Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)					
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10.4 Condi	tions to avoid				
	None specified.				
10.5 Incom	patible materials				
	None specified.				
10.6 Hazaro	dous decomposition p	roducts			
	Hazardous decomposi	tion products are	e not to be produced.		
	Toxicological informa				
	nation on toxicological				
	on available data, the c	lassification crite	eria listed below are no	t met.	
Acute	toxicity				
	Oral (LD <sub>50</sub> )	>2000 mg/kg (	rat)*		
	Dermal (LD <sub>50</sub> )	No data availa	ble. (Toner)		
	Inhalation (LC <sub>50</sub> (4hr))	> 5.10 mg/l (ra	t)*		
Skin c	orrosion/irritation				
	Acute skin irritation	Non-irritant (ra	bbit)*.		
Seriou	us eye damage/irritatio	n			
	Acute eye irritation	Mild irritant (ra	bbit)*.		
Respir	ratory or skin sensitiza	ation			
	Skin sensitization	Non-sensitizer	(mouse)*.		
Germ	cell mutagenicity	Ames test is n	egative. (Toner)		
			*(based on test result of	of similar product) (Toner)	
Inform	nation of ingredients:				
	No mutagen according	to MAK, TRGS	905 und (EC) No 1272	2/2008 Annex VI.	
Carcin	nogenicity				
Inform	nation 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.					



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### IF IT WORX, IT'S

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Version:	01	Replace version:	-

11.1 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 tests 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.

#### SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bio accumulative potential

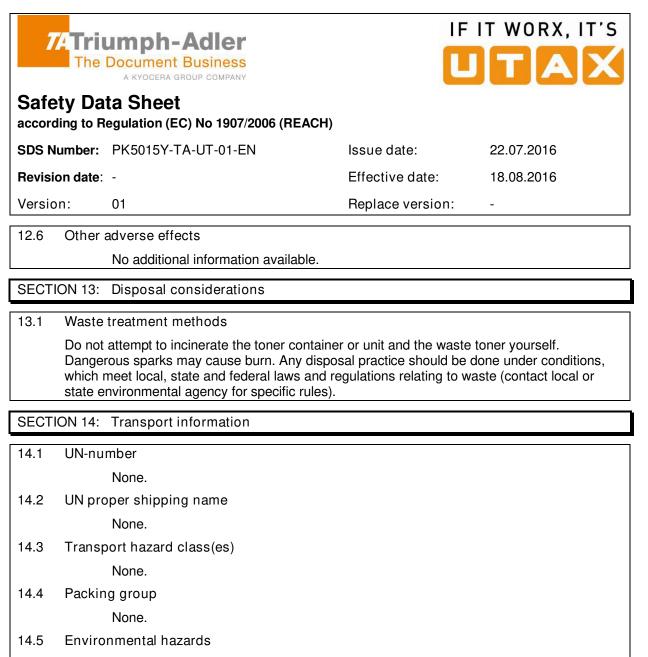
No data available.

#### 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

No data available.



None.

- 14.6 Special precautions for user
  - No additional information available.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.





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

Revision date: - Effective date:	18.08.2016
Version: 01 Replace version	on: -

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.



Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)					
SDS Number:	PK5015Y-TA-UT-01-EN	Issue date:	22.07.2016		
Revision date	: -	Effective date:	18.08.2016		
Version:	01	Replace version:	-		
SECTION 16:	Other information				
(EC) I SDSs	statements under sections 3:				
ACGIH TLVs and BEIs CAS CLP DFG EPA IARC	H American Conference of Governmental Industrial Hygienists (2010)				
MAK NTP OSHA PBT PEL REACH	Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011) National Toxicology Program (Report on Carcinogens) (USA) Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z) Persistent, Bio accumulative and Toxic Permissible Exposure Limits Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals				

Key literature references and sources for data

Workplace Hazardous Materials Information System (Canada)

Technische Regeln für Gefahrstoffe (Deutschland)

Substances of Very High Concern

Time Weighted Average

**United Nations** 

Toxic Substances Control Act (USA)

very Persistent and very Bio accumulative

(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)

(2) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93

California, Safe Drinking Water and Toxic Enforcement Act of 1986

(3) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"

(4) The contents are in accordance with Material Safety Data Sheet "PK5015Y-TA-UT-01-EN"; 22/07/2016 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.

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