

SDS Number:CK5511C-TA-UT-04-ENIssue date:Revision date:17/0972021Effective date:Version:04Replace version:

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

1.1	Product identifier		
	Product name	Cyan Toner for	
		350ci, 352ci	
	Consumable name	CK-5511C	
	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**

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

09/10/2015

17/09/2021

03

7	Triump	h-Adler		IFI	T WORX, IT'S		
	The Docum	ent Business era group company			TAX		
	Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)						
SDS Nu	umber: CK551	1C-TA-UT-04-EN		Issue date:	09/10/2015		
Revisio	on date: 17/0972	2021		Effective date:	17/09/2021		
Versio	n: 04			Replace version	on: 03		
SECTIC	N 3: Composi	tion/information on ing	aredients				
	-		,				
3.2	Mixtures Chemical name	<b>a</b>	CAS No	Weight%	Classification (CLP)		
	Polyester resin	_	Confidential	75-85			
	Organic pigmer	nt	Confidential	1-5			
	Amorphous silic Titanium dioxid		7631-86-9 13463-67-7	1-5 < 1	Carc.2(H351)		
	Information of (1) Substance,	ingredients which present a health o	or environmental	l hazard within th	ne meaning of CLP:		
	. ,	Titanium dioxide.					
	(2) Substance, which are assigned Community workplace exposure limits:						
		None.					
	(3) Substance, REACH:	, which are PBT or vPvB in accordance with the criteria set out in Annex XIII of					
	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.						
SECTIC	N 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.					





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

SDS Number:	CK5511C-TA-UT-04-EN	Issue date:	09/10/2015
Revision date:	17/0972021	Effective date:	17/09/2021
Version:	04	Replace version:	03

# 4.2 Most important symptoms and effects, both acute and delayed Potential health effects and symptoms Inhalation: Prolonged inhalation of excessive dusts may cause lung damage. Use of this product as intended does not result in prolonged inhalation of excessive toner dusts. Skin contact: Unlikely to cause skin irritation. Eye contact: May cause transient eye irritation. Ingestion: Use of this product as intended does not result in ingestion. 4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

#### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam, powder, CO<sub>2</sub> or dry chemical

Unsuitable extinguishing media

None specified.

#### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide, Carbon monoxide

#### 5.3 Advice for firefighters

Fire-fighting procedures

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

#### Protection equipment for firefighters

None specified.

#### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation, ingestion, eye and skin contact in case of accidental release. Avoid formation of dust. Provide adequate ventilation.

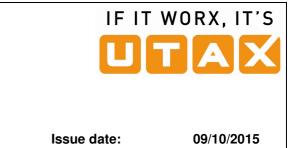
#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3 Methods and material for containment and cleaning up

Gather the released powder not to blow away and wipe up with a wet cloth.





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

17/09/2021

03

Effective date:

**Replace version:** 

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

#### SDS Number: CK5511C-TA-UT-04-EN

Revision date: 17/0972021

Safety Data Sheet

Version: 04

#### 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

(Reference data)

#### 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/m³ (Total dust)5 mg/m³ (Respirable fraction)Amorphous silica: 80 mg/m³/%SiO25 mg/m³ (Respirable fraction)Titanium dioxide: 15 mg/m³ (Total dust)5 mg/m³ (Respirable fraction)

# 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.

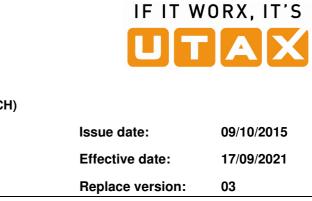
#### Personal protective equipment

Respiratory protection, eye protection, hand protection, skin and body protection are not required under normal intended use.

#### **Environmental exposure controls**

No additional information available.





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

SDS Number: CK5511C-TA-UT-04-EN

Revision date: 17/0972021

Version: 04

#### SECTION 9: Physical and chemical properties

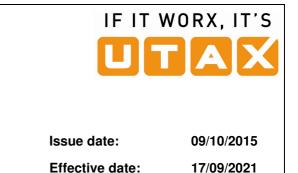
Information on basic physical and chen	nical properties
Appearance	
Physical state	Solid (fine powder)
Colour	Cyan
Odour	Odourless
Odour threshold	No data available.
рН	No data available.
Melting point [°C]	100-120 (Toner)
Boiling point	No data available.
Flash point	No data available.
Evaporation rate	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 properties

Dust explosion is improbable under normal intended use. Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to the pressure rising speed.





03

Replace version:

Safety Data Sheet

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

SDS Number: CK5511C-TA-UT-04-EN

Revision date: 17/0972021

Version:

# SECTION 10: Stability and reactivity

04

# 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	Information on toxicological effects	
	Based on available data, the classification criteria listed below are not met.		
	Acute toxicity		
	Oral (LD <sub>50</sub> )	> 2000 mg/kg (rat)* (Toner)	
	Dermal (LD <sub>50</sub> )	No data available (Toner).	
	Inhalation $(LC_{50}(4hr))$	> 5.0 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 sensitiza	ation	
	Skin sensitization	Non-sensitising (mouse)* (Toner)	
	Germ cell mutagenicity		
		Ames test is negative (Toner) *(based on test result of similar product)	
	Information of ingredients:		
	No mutagen according to MAK, TRGS905 und (EC) No 1272/2008 Annex VI.		





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

(5511C-TA-UT-04-EN	Issue date:	09/10/2015
/0972021	Effective date:	17/09/2021
۱	Replace version:	03
,	/0972021	/0972021 Effective date:

#### 11.1 Carcinogenicity

#### Information of ingredients:

No carcinogen or potential carcinogen (except Titanium dioxide) according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, TRGS 905 and (EC) No 1272/2008 Annex VI.

The IARC 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



04

Triumph-Adler The Document Business		NORX, IT'S
Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)		
SDS Number: CK5511C-TA-UT-04-EN	Issue date:	09/10/2015
Revision date: 17/0972021	Effective date:	17/09/2021

**Replace version:** 

03

Version:

#### **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.

#### 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)

SDS Number:	CK5511C-TA-UT-04-EN	Issue date:	09/10/2015
Revision date:	17/0972021	Effective date:	17/09/2021
Version:	04	Replace version:	03

#### 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.

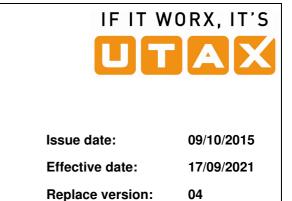
#### **Canada regulations**

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

#### 15.2 Chemical Safety Assessment

	umph-Adlor	IF IT W	'ORX, IT'S		
	Umph-Adler Document Business	mc			
	A KYOCERA GROUP COMPANY				
Safety Da	ita Sheet				
-	Regulation (EC) No 1907/2006 (REACH	)			
SDS Number:	CK5511C-TA-UT-04-EN	Issue date:	09/10/2015		
Revision date:	: 17/0972021	Effective date:	17/09/2021		
Version:	04	Replace version:	03		
		•			
SECTION 16:	Other information				
To the	best of our knowledge, the information	n contained herein is accurate. H	owever, we		
cannot	t assume any liability whatsoever for th	ne accuracy or completeness of t	he information		
	ned herein. The contents and format o				
	lo 1907/2006, Annex II as amended by	Regulation (EU) 2015/830 with	respect to SDSs.		
	nation: Section 3				
		1: Suspected of causing cancer (	inhalation)		
Abbreviations an	-				
ACGIH	American Conference of Governmental Indus 2016 TLVs and BEIs (Threshold Limit Values		gents and Biological		
	Exposure Indices)		.gome and Dielogical		
CAS CLP	Chemical Abstracts Service	- loballing and poskaging of substance	a and mixtures		
DFG	Regulation (EC) No 1272/2008 on classification Deutsche Forschungsgemeinschaft	on, labelling and packaging of substances	s and mixtures		
EPA Environmental Protection Agency (Integrated Ri					
IARC					
МАК	Maximale Arbeitsplatzkonzentration der Deuts				
NTP OSHA	National Toxicology Program (Report on Carc Occupational Safety and Health Administratio	<b>o</b> , ( ,			
PBT	Persistent, Bio accumulative and Toxic				
PEL	Permissible Exposure Limits				
Proposition 65	California, Safe Drinking Water and Toxic Enf				
REACH	Regulation (EC) No 1907/2006 concerning the Chemicals	e Registration, Evaluation, Authorization	and Restriction of		
STOT	Specific target organ toxicity				
SVHC	Substances of Very High Concern	land)			
TRGS 905 TSCA	Technische Regeln für Gefahrstoffe (Deutsch Toxic Substances Control Act (US)	and)			
TWA	Time Weighted Average				
UN	United Nations				
vPvB WHMIS	very Persistent and very Bio accumulative Workplace Hazardous Materials Information S	System (Canada)			
_	erences and sources for data	,			
	-				
	bgy 17.280-299 (1991) Lung Clearance and Ret				
	on Exposure in Rats, B. Bellmann, Fundamental		91)		
``	onograph on the Evaluation of the Carcinogenic CURRENT INTELLIGENCE BULLETIN "Evalua		tion for Occupational		
	re to Titanium Dioxide DRAFT"	tion of thealth flazard and neconinerida	tion for Occupational		
	tents are in accordance with Material Safety Da RA Document Solutions Inc., 1-2-28 Tamatsuku		9/2021 of the		
		, e.ue ite, eeuna ere eee, eapan.			





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

SDS Number: CK5511K-TA-UT-05-EN

Revision date: 17/09/2021

Version: 05

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

1.1	Product identifier		
	Product name	Black Toner for	
		350ci, 352ci	
	Consumable name	CK-5511K	
	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.

74 Triumph-Adler				IFI	T WORX, IT'S		
	The Document Business				TAX		
	Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)						
SDS N	umber: CK551	1K-TA-UT-05-EN		Issue date:	09/10/2015		
Revisio	on date: 17/09/2	2021		Effective date	: 17/09/2021		
Versio	n: 05			Replace versi	on: 04		
SECTIO	DN 3: Composi	tion/information on ing	gredients				
3.2	Mixtures		-				
012	Chemical name	2	CAS No	Weight%	Classification (CLP)		
	Polyester resin	-	Confidential	70-80			
	Carbon Black Styrene acrylat	e copolymer	1333-86-4 Confidential	5-10 1-5			
	Amorphous silie Titanium dioxid	ca	7631-86-9 13463-67-7	1-5	Core 2/11251)		
	Information of	-	13403-07-7	< 1	Carc.2(H351)		
		which present a health of	or environmenta	l hazard within t	he meaning of CLP:		
		Titanium dioxide.					
	(2) Substance,	which are assigned Con	nmunity workpla	ce exposure lim	nits:		
		None.					
	(3) Substance, REACH:	which are PBT or vPvB	in accordance w	vith the criteria s	set out in Annex XIII of		
		None.					
	(4) Substance, REACH (S)	which are included in the /HC):	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	DN 4: First aid	measures					
4.1	Description of	first aid measures					
	Inhalation:	Remove from exposure Consult a doctor in case					
	Skin contact:	Wash with soap and wa	ater.				
	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.			r to dilute.		





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

SDS Number:	CK5511K-TA-UT-05-EN	Issue date:	09/10/2015
Revision date:	17/09/2021	Effective date:	17/09/2021
Version:	05	Replace version:	04

# 4.2 Most important symptoms and effects, both acute and delayed Potential health effects and symptoms Inhalation: Prolonged inhalation of excessive dusts may cause lung damage. Use of this product as intended does not result in prolonged inhalation of excessive toner dusts. Skin contact: Unlikely to cause skin irritation. Eye contact: May cause transient eye irritation. Ingestion: Use of this product as intended does not result in ingestion.

### 4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

#### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam, powder, CO<sub>2</sub> or dry chemical

Unsuitable extinguishing media

None specified.

#### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide, Carbon monoxide

#### 5.3 Advice for firefighters

Fire-fighting procedures

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

#### Protection equipment for firefighters

None specified.

#### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation, ingestion, eye and skin contact in case of accidental release. Avoid formation of dust. Provide adequate ventilation.

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3 Methods and material for containment and cleaning up

Gather the released powder not to blow away and wipe up with a wet cloth.





17/09/2021

04

Effective date:

**Replace version:** 

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

SDS Number: CK5511K-TA-UT-05-EN

Revision date: 17/09/2021

Safety Data Sheet

Version: 05

#### 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

(Reference data)

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

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

#### US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust)5 mg/m³ (Respirable fraction)Carbon Black: 3.5 mg/m³Amorphous silica: 80 mg/m³/%SiO2Titanium dioxide: 15 mg/m³ (Total dust)5 mg/m³ (Respirable fraction)

# 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.

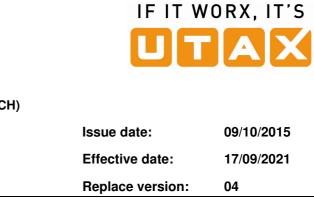
#### Personal protective equipment

Respiratory protection, eye protection, hand protection, skin and body protection are not required under normal intended use.

#### **Environmental exposure controls**

No additional information available.





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

SDS Number: CK5511K-TA-UT-05-EN

Revision date: 17/09/2021

Version: 05

#### SECTION 9: Physical and chemical properties

Information on basic physical and che	mical properties
Appearance	
Physical state	Solid (fine powder)
Colour	Black
Odour	Odourless
Odour threshold	No data available.
рН	No data available.
Melting point [°C]	100-120 (Toner)
Boiling point	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper flammability or explosive limit	No data available.
Lower flammability or explosive limit	No data available.
Vapour pressure	No data available.
Vapour density	No data available.
Relative density [g/cm <sup>3</sup> ]	1.2-1.4 (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 properties

Dust explosion is improbable under normal intended use. Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to the pressure rising speed.





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

SDS Number: CK5511K-TA-UT-05-EN

Revision date: 17/09/2021

Safety Data Sheet

Version:

Replace version:	04
Effective date:	17/09/2021
issue dute.	00/10/2010

#### SECTION 10: Stability and reactivity

05

# 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

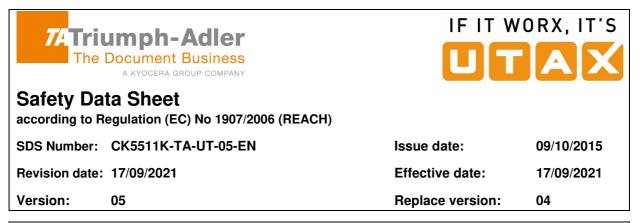
None specified.

#### 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			
	Oral (LD <sub>50</sub> )	> 2000 mg/kg (rat)* (Toner)		
	Dermal (LD <sub>50</sub> )	No data available (Toner).		
	Inhalation (LC <sub>50</sub> (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 sensitiza	ation		
	Skin sensitization	Non-sensitising (mouse)* (Toner)		
	Germ cell mutagenicity			
	Ames test is negative (Toner) toased on test result of similar produ*			
	Information of ingredients:			
	No mutagen according	g to MAK, TRGS905 und (EC) No 1272/2008 Annex VI.		



#### 11.1 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



Revision date: 17/09/2021



04

**Replace version:** 

Version:

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

05

SDS Number: CK5511K-TA-UT-05-EN

#### 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)

SDS Number: C	CK5511K-TA-UT-05-EN	Issue date:	09/10/2015
Revision date: 1	7/09/2021	Effective date:	17/09/2021
Version: 0	95	Replace version:	04

#### 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**

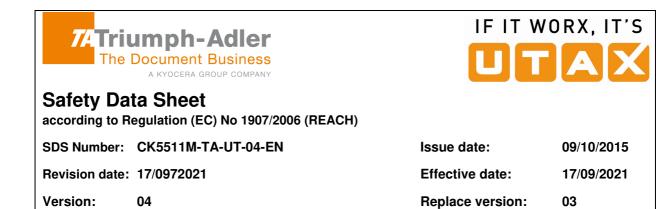
All ingredients in this product comply with order under TSCA.

#### **Canada regulations**

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

#### 15.2 Chemical Safety Assessment

7/Tri	umph-Adler	IF IT W	IF IT WORX, IT'S					
	Document Business	ma						
	The Document Business A KYOCERA GROUP COMPANY							
Safety Da according to F	Ita Sheet Regulation (EC) No 1907/2006 (REACH)							
SDS Number:	CK5511K-TA-UT-05-EN	Issue date:	09/10/2015					
Revision dates	: 17/09/2021	Effective date:	17/09/2021					
Version:	05	Replace version:	04					
SECTION 16:	Other information							
canno contai	best of our knowledge, the information contain t assume any liability whatsoever for the accur ned herein. The contents and format of this SE No 1907/2006, Annex II as amended by Regula	acy or completeness of the second structure of the second second structure of the second structure of the second second structure of the second s	ne information Regulation					
Revision inform	mation: Section 3							
Full text of H s	tatements under sections 3: H351: Suspe	ected of causing cancer (	inhalation)					
Abbreviations ar	-							
ACGIH CAS CLP DFG EPA IARC MAK NTP OSHA PBT PEL Proposition 65 REACH STOT SVHC TRGS 905 TSCA TWA UN vPvB	American Conference of Governmental Industrial Hygie 2016 TLVs and BEIs (Threshold Limit Values for Chemic Exposure Indices) Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, labellin Deutsche Forschungsgemeinschaft Environmental Protection Agency (Integrated Risk Infor International Agency for Research on Cancer (IARC Mo to Humans) Maximale Arbeitsplatzkonzentration der Deutschen Fors National Toxicology Program (Report on Carcinogens) Occupational Safety and Health Administration (29 CFF Persistent, Bio accumulative and Toxic Permissible Exposure Limits California, Safe Drinking Water and Toxic Enforcement Regulation (EC) No 1907/2006 concerning the Registra Chemicals Specific target organ toxicity Substances of Very High Concern Technische Regeln für Gefahrstoffe (Deutschland) Toxic Substances Control Act (US) Time Weighted Average United Nations very Persistent and very Bio accumulative	ical Substances and Physical A ng and packaging of substances mation System) (US) phographs on the Evaluations of schungsgesellschaft (2011) (US) R Part 1910 Subpart Z) Act of 1986	s and mixtures f Carcinogenic Risks					
WHMIS	Workplace Hazardous Materials Information System (C	anada)						
	erences and sources for data	in Rate H Muble et al Euroda	mental and Applied					
<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 "CK5511K-TA-UT-04-EN"; 17/09/2021 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.</li> </ol>								



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

1.1	Product identifier			
	Product name	Magenta Toner for		
		350ci, 352ci		
	Consumable name	CK-5511M		
	Product form	Mixture		
1.2	Relevant identified us	ses of the substance or mixture and uses advised against		
	Identified uses	The image formation of our electrophotographic equipment. Other uses are not recommended.		
1.3	Details of the supplie	r of the safety data sheet		
	Manufacturer	KYOCERA Document Solutions Inc.		
	Address	1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan		
	Supplier	TA Triumph-Adler GmbH		
	Address	Deelbögenkamp 4c 22297 Hamburg Germany		
1.4	Emergency telephone	e number +49 (0) 40 / 528490 (This number is available only during office hours)		

#### **SECTION 2: Hazards identification**

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.

74 Triumph-Adler		IF IT WORX, IT'S						
The Document Business				TAX				
		CERA GROUP COMPANY						
	Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)							
SDS Nu	umber: CK55 <sup>-</sup>	11M-TA-UT-04-EN		Issue date:	09/10/2015			
Revisio	on date: 17/097	72021		Effective date	: 17/09/2021			
Versio	n: 04			Replace versi	on: 03			
SECTIO	N 3: Compos	ition/information on ing	gredients					
3.2	Mixtures							
•	Chemical nam	<u>e</u>	CAS No	Weight%	Classification (CLP)			
	Polyester resir		Confidential	75-85				
	Organic pigme Amorphous sil		Confidential 7631-86-9	1-5 1-5				
	Titanium dioxi		13463-67-7	< 1	Carc.2(H351)			
	Information of (1) Substance	<b>f ingredients</b> , which present a health (	or environmenta	l hazard within t	the meaning of CLP:			
		Titanium dioxide.						
	(2) Substance	, which are assigned Cor	nmunity workpla	ce exposure lin	nits:			
		None.						
	(3) Substance REACH:	, which are PBT or vPvB	in accordance w	vith the criteria s	set out in Annex XIII of			
		None.						
	(4) Substance REACH (S	, which are included in th WHC):	e list established	d in accordance	with Article 59(1) of			
		None.						
	See section 16	6 for the full text of the H	statements decl	ared above.				
SECTIO	N 4: First aid	measures						
4.1	Description o	f 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 irritati	ng.			
	Ingestion:	Rinse out the mouth. D Seek medical treatmen		glasses of wate	r to dilute.			





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

SDS Number:	CK5511M-TA-UT-04-EN	Issue date:	09/10/2015
Revision date:	17/0972021	Effective date:	17/09/2021
Version:	04	Replace version:	03

# 4.2 Most important symptoms and effects, both acute and delayed Potential health effects and symptoms Inhalation: Prolonged inhalation of excessive dusts may cause lung damage. Use of this product as intended does not result in prolonged inhalation of excessive toner dusts. Skin contact: Unlikely to cause skin irritation. Eye contact: May cause transient eye irritation. Ingestion: Use of this product as intended does not result in ingestion.

# 4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

#### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam, powder, CO<sub>2</sub> or dry chemical

Unsuitable extinguishing media

None specified.

#### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide, Carbon monoxide

#### 5.3 Advice for firefighters

Fire-fighting procedures

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

#### Protection equipment for firefighters

None specified.

#### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation, ingestion, eye and skin contact in case of accidental release. Avoid formation of dust. Provide adequate ventilation.

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3 Methods and material for containment and cleaning up

Gather the released powder not to blow away and wipe up with a wet cloth.





17/09/2021

03

Effective date:

**Replace version:** 

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

#### SDS Number: CK5511M-TA-UT-04-EN

Revision date: 17/0972021

Safety Data Sheet

Version: 04

#### 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**

(Reference data)

#### 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)

#### 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.

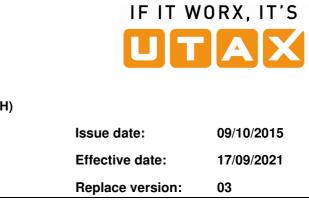
#### **Environmental exposure controls**

No additional information available.

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

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





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

SDS Number: CK5511M-TA-UT-04-EN

Revision date: 17/0972021

Version: 04

#### SECTION 9: Physical and chemical properties

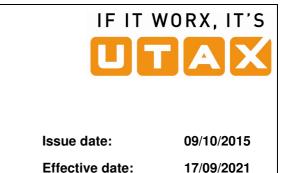
Information on basic physical and ch	emical properties
Appearance	
Physical state	Solid (fine powder)
Colour	Magenta
Odour	Odourless
Odour threshold	No data available.
рН	No data available.
Melting point [°C]	100-120 (Toner)
Boiling point	No data available.
Flash point	No data available.
Evaporation 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 properties

Dust explosion is improbable under normal intended use. Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to the pressure rising speed.





03

Replace version:

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

SDS Number: CK5511M-TA-UT-04-EN

Revision date: 17/0972021

Safety Data Sheet

Version:

#### SECTION 10: Stability and reactivity

04

#### 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			
	Oral (LD <sub>50</sub> )	> 2000 mg/kg (rat)* (Toner)		
	Dermal (LD <sub>50</sub> )	No data available (Toner).		
	Inhalation $(LC_{50}(4hr))$	Inhalation (LC <sub>50</sub> (4hr)) > 5.0 mg/l (rat)* (Toner)		
	Skin corrosion/irritation Acute skin irritation Non-irritant (rabbit)* (Toner)			
	Serious eye damage/irritatio	n		
	Acute eye irritation	Minimal irritant (rabbit)* (Toner)		
	Respiratory or skin sensitiza	ation		
	Skin sensitization	Non-sensitising (mouse)* (Toner)		
	Germ cell mutagenicity			
		Ames test is negative (Toner) *(based on test result of similar product)		
	Information of ingredients:			
	No mutagen according to MAK, TRGS905 und (EC) No 1272/2008 Annex VI.			





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

SDS Number:	CK5511M-TA-UT-04-EN	Issue date:	09/10/2015
Revision date:	17/0972021	Effective date:	17/09/2021
Version:	04	Replace version:	03

#### 11.1 Carcinogenicity

#### Information of ingredients:

No carcinogen or potential carcinogen (except Titanium dioxide) according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, TRGS 905 and (EC) No 1272/2008 Annex VI.

The IARC 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



Triumph-Adler The Document Business		ORX, IT'S
Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)		
SDS Number: CK5511M-TA-UT-04-EN	Issue date:	09/10/2015
Revision date: 17/0972021	Effective date:	17/09/2021

**Replace version:** 

03

Version:

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

04

#### 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)

SDS Number:	CK5511M-TA-UT-04-EN	Issue date:	09/10/2015
Revision date:	17/0972021	Effective date:	17/09/2021
Version:	04	Replace version:	03

#### 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**

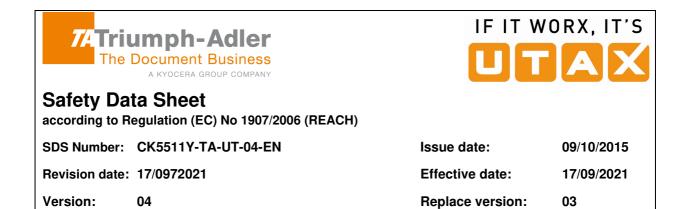
All ingredients in this product comply with order under TSCA.

#### **Canada regulations**

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

#### 15.2 Chemical Safety Assessment

77 3.	umph_Adlor	IF IT W	ORX, IT'S
	umph-Adler Document Business	mc	
	A KYOCERA GROUP COMPANY		
Safety Da	ta Sheet		
-	Regulation (EC) No 1907/2006 (REACH)		
SDS Number:	CK5511M-TA-UT-04-EN	Issue date:	09/10/2015
Revision date:	17/0972021	Effective date:	17/09/2021
Version:	04	Replace version:	03
SECTION 16:	Other information		
To the	best of our knowledge, the information c	ontained herein is accurate. He	owever. we
cannot	assume any liability whatsoever for the	accuracy or completeness of th	ne information
	hed herein. The contents and format of th		
	lo 1907/2006, Annex II as amended by R	egulation (EU) 2015/830 with i	respect to SDSs.
	nation: Section 3		
		Suspected of causing cancer (i	nhalation)
Abbreviations an	-		
ACGIH	American Conference of Governmental Industrial 2016 TLVs and BEIs (Threshold Limit Values for		gents and Biological
	Exposure Indices)		
CAS CLP	Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification,	labelling and packaging of substances	and mixtures
DFG	Deutsche Forschungsgemeinschaft		
EPA	Environmental Protection Agency (Integrated Ris		
IARC	International Agency for Research on Cancer (IA to Humans)	RC Monographs on the Evaluations of	Carcinogenic Risks
MAK	Maximale Arbeitsplatzkonzentration der Deutsche		
NTP OSHA	National Toxicology Program (Report on Carcino Occupational Safety and Health Administration (2		
PBT	Persistent, Bio accumulative and Toxic		
PEL	Permissible Exposure Limits		
Proposition 65 REACH	California, Safe Drinking Water and Toxic Enforce Regulation (EC) No 1907/2006 concerning the Re		and Restriction of
STOT	Chemicals Specific target organ toxicity		
SVHC	Substances of Very High Concern		
TRGS 905	Technische Regeln für Gefahrstoffe (Deutschland	()	
TSCA TWA	Toxic Substances Control Act (US) Time Weighted Average		
UN	United Nations		
vPvB	very Persistent and very Bio accumulative		
WHMIS	Workplace Hazardous Materials Information Syst	em (Canada)	
-	erences and sources for data		
Toxicolo	ary Response to Toner upon Chronic Inhalation Exp gy 17.280-299 (1991) Lung Clearance and Retenti	on of Toner, Utilizing a Tracer Technic	ue, during Chronic
	on Exposure in Rats, B. Bellmann, Fundamental and onograph on the Evaluation of the Carcinogenic Ris		1)
(3) NIOSH (	CURRENT INTELLIGENCE BULLETIN "Evaluation or the Calcinogenic Has or to Titanium Dioxide DRAFT"		on for Occupational
(4) The con	tents are in accordance with Material Safety Data S RA Document Solutions Inc., 1-2-28 Tamatsukuri, (		9/2021 of the
		•	



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

1.1	Product identifier		
	Product name	Yellow Toner for	
		350ci, 352ci	
	Consumable name	CK-5511Y	
	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.

74 Triumph-Adler		IF IT WORX, IT'S				
	The Docum	ent Business		U		AX
Safe	ty Data Sh					
	-	n (EC) No 1907/2006 (RI	EACH)			
SDS N	umber: CK551	1Y-TA-UT-04-EN		Issue date:		09/10/2015
Revisio	on date: 17/097	2021		Effective date	<b>:</b> :	17/09/2021
Versio	n: 04			Replace vers	ion:	03
SECTIO	N 3: Composi	tion/information on ing	gredients			
3.2	Mixtures					
	Chemical name	2	CAS No	Weight%	<u>Classific</u>	cation (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,	ingredients which present a health o	or environmental	I hazard within	the meani	ing of CLP:
		Titanium dioxide.				
	(2) Substance,	which are assigned Con	nmunity workpla	ce exposure lin	nits:	
		None.				
	(3) Substance, REACH:	which are PBT or vPvB	in accordance w	vith the criteria s	set out in .	Annex XIII of
		None.				
	(4) Substance, REACH (S)	which are included in the /HC):	e list established	l in accordance	with Artic	cle 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 Consult a doctor in case				ter.
	Skin contact:	Wash with soap and wa	ater.			
	Eye contact:	Flush with water immed	liately and see a	a doctor if irritati	ing.	
	Ingestion:	Rinse out the mouth. D Seek medical treatmen		glasses of wate	r to dilute.	





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

SDS Number:	CK5511Y-TA-UT-04-EN	Issue date:	09/10/2015
Revision date:	17/0972021	Effective date:	17/09/2021
Version:	04	Replace version:	03

# 4.2 Most important symptoms and effects, both acute and delayed Potential health effects and symptoms Inhalation: Prolonged inhalation of excessive dusts may cause lung damage. Use of this product as intended does not result in prolonged inhalation of excessive toner dusts. Skin contact: Unlikely to cause skin irritation. Eye contact: May cause transient eye irritation. Ingestion: Use of this product as intended does not result in ingestion.

# 4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

#### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam, powder, CO<sub>2</sub> or dry chemical

Unsuitable extinguishing media

None specified.

#### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide, Carbon monoxide

#### 5.3 Advice for firefighters

Fire-fighting procedures

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

#### Protection equipment for firefighters

None specified.

#### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation, ingestion, eye and skin contact in case of accidental release. Avoid formation of dust. Provide adequate ventilation.

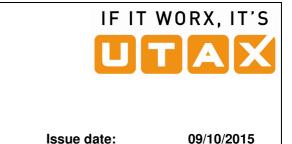
#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3 Methods and material for containment and cleaning up

Gather the released powder not to blow away and wipe up with a wet cloth.





17/09/2021

03

Effective date:

**Replace version:** 

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

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

### SDS Number: CK5511Y-TA-UT-04-EN

Revision date: 17/0972021

Safety Data Sheet

Version: 04

#### 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

(Reference data)

#### 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/m³ (Total dust)5 mg/m³ (Respirable fraction)Amorphous silica: 80 mg/m³/%SiO25 mg/m³ (Respirable fraction)Titanium dioxide: 15 mg/m³ (Total dust)5 mg/m³ (Respirable fraction)

# 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.

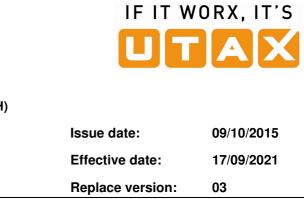
#### Personal protective equipment

Respiratory protection, eye protection, hand protection, skin and body protection are not required under normal intended use.

#### **Environmental exposure controls**

No additional information available.





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

SDS Number: CK5511Y-TA-UT-04-EN

Revision date: 17/0972021

Version: 04

#### SECTION 9: Physical and chemical properties

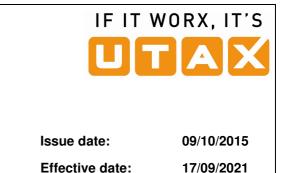
Information on basic physical and che	mical properties
Appearance	
Physical state	Solid (fine powder)
Colour	Yellow
Odour	Odourless
Odour threshold	No data available.
рН	No data available.
Melting point [°C]	100-120 (Toner)
Boiling point	No data available.
Flash point	No data available.
Evaporation rate	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/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 properties

Dust explosion is improbable under normal intended use. Experimental explosiveness of toner is classified into the same rank such kind of powder as flour, dry milk and resin powder according to the pressure rising speed.





03

Replace version:

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

SDS Number: CK5511Y-TA-UT-04-EN

04

Revision date: 17/0972021

Safety Data Sheet

Version:

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			
	Oral (LD <sub>50</sub> )	> 2000 mg/kg (rat)* (Toner)		
	Dermal (LD <sub>50</sub> )	No data available (Toner).		
	Inhalation $(LC_{50}(4hr))$	> 5.0 mg/l (rat)* (Toner)		
	Skin corrosion/irritation			
	Acute skin irritation	Non-irritant (rabbit)* (Toner)		
	Serious eye damage/irritatio	n		
	Acute eye irritation	Minimal irritant (rabbit)* (Toner)		
	Respiratory or skin sensitiza	ation		
	Skin sensitization	Non-sensitising (mouse)* (Toner)		
	Germ cell mutagenicity			
		Ames test is negative (Toner) *(based on test result of similar product)		
	Information of ingredients:			
	No mutagen according to MAK, TRGS905 und (EC) No 1272/2008 Annex VI.			





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

SDS Number:	CK5511Y-TA-UT-04-EN	Issue date:	09/10/2015
Revision date:	17/0972021	Effective date:	17/09/2021
Version:	04	Replace version:	03

#### 11.1 Carcinogenicity

#### Information of ingredients:

No carcinogen or potential carcinogen (except Titanium dioxide) according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, TRGS 905 and (EC) No 1272/2008 Annex VI.

The IARC 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



Triumph-Adler The Document Business		NORX, IT'S
Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)		
SDS Number: CK5511Y-TA-UT-04-EN	Issue date:	09/10/2015
Revision date: 17/0972021	Effective date:	17/09/2021

**Replace version:** 

03

Version:

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

04

#### 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)

SDS Number:	CK5511Y-TA-UT-04-EN	Issue date:	09/10/2015
Revision date:	17/0972021	Effective date:	17/09/2021
Version:	04	Replace version:	03

#### 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

74 Triu	umph-Adler	IF IT W	ORX, IT'S	
	Document Business			
	A KYOCERA GROUP COMPANY			
Safety Da				
according to R	egulation (EC) No 1907/2006 (REACH)			
SDS Number:	CK5511Y-TA-UT-04-EN	Issue date:	09/10/2015	
Revision date:	17/0972021	Effective date:	17/09/2021	
Version:	04	Replace version:	03	
SECTION 16:	Other information			
cannot contain	To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, Annex II as amended by Regulation (EU) 2015/830 with respect to SDSs.			
Revision inform	nation: Section 3			
Full text of H st	atements under sections 3: H351: Suspec	ted of causing cancer (in	nhalation)	
Abbreviations and	d acronyms			
Abbreviations and acronyms         ACGIH       American Conference of Governmental Industrial Hygienists 2016 TLVs and BEIs (Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices)         CAS       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, Bio accumulative and Toxic PEL       Permissible Exposure Limits         Proposition 65       California, Safe Drinking Water and Toxic Enforcement Act of 1986         REACH       Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals         STOT       Specific target organ toxicity         SVHC       Substances of Very High Concern         TRGS 905       Technische Regeln für Gefahrstoffe (Deutschland)         TSCA       Toxi				
-	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 "CK5511Y-TA-UT-04-EN"; 17/09/2021 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.</li> </ol>				