

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

SDS Number: CK5516C-TA-UT-02-EN

Revision date: 30.08.2023

Version: 02

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

1.1	Product identifier	
	Product name	Cyan Toner for
		358ci
	Consumable name	CK-5516C
	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

Classification according to Regulation (EC) No 1272/2008 (CLP)
Not classified as hazardous mixture.
Label elements
Labelling according to Regulation (EC) No 1272/2008 (CLP)
Not applicable.
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.

Triumph-Adler			IF IT WORX, IT'S			
	The Document Business			UTAX		
Safe	ety Data Sh	CERA GROUP COMPANY				
		on (EC) No 1907/2006 (R	EACH)			
SDS N	umber: CK551	6C-TA-UT-02-EN		Issue date:		26/12/2022
Revis	ion date: 30.08.2	2023		Effective date	e :	30/08/2023
Versi	on: 02			Replace vers	ion:	01
SECTI	ON 3. Compos	ition/information on in	aredients			
	-		grouionto			
3.2	Mixtures Chemical name	0	CAS No	Weight%	Classifi	cation (CLP)
	Polyester resin		Confidential	<u>80-90</u>	None	
	Organic pigme	. ,	Confidential	3-8	None	
	Wax Amorphous sili		Confidential	3-8	None	
	Aluminium con		7631-86-9 1344-28-1	1-2 < 1	None None	
	Information of	f ingredients				
	(1) Substance,	which present a health	or environmenta	al hazard within	the mean	ing of CLP:
		None.				
(2) Substance, which are assigned Community workpla			ace exposure lin	nits:		
	None.					
(3) Substance, which are PBT or vPvB in accordance with t REACH:			with the criteria	set out in	Annex XIII of	
		None.				
	(4) Substance, REACH (S	which are included in th VHC):	e list establishe	d in accordance	e with Artio	cle 59(1) of
		None.				
	See section 16	for the full text of the H	statements dec	lared above.		
SECTI	ON 4: First aid	measures				
4.1	Description of	f first aid measures				
	Inhalation:	Remove from exposure Consult a doctor in cas				ter.
	Skin contact:	Wash with soap and w	ater.			
	Eye contact:	Flush with water imme	diately and see	a doctor if irritat	ing.	
	Ingestion:	Rinse out the mouth. E Seek medical treatmer		glasses of wate	r to dilute	
4.2	Most importa	nt symptoms and effec	ts, both acute	and delayed		
	Potential healtl	h effects and symptoms				
	Inhalation:	Prolonged inhalation o product as intended do dusts.				





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4.2 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

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.

6.4 Reference to other sections

See section 13 for disposal information.





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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) Aluminium insoluble compounds: 1 mg/m³ (Respirable fraction)

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust) Amorphous silica: 80 mg/m³/%SiO₂ 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

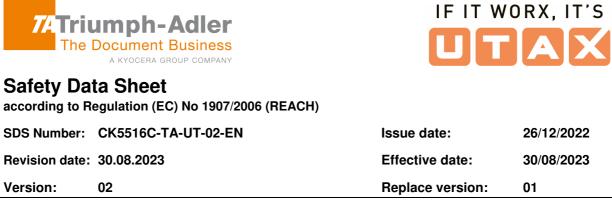
No additional information available.



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SECTION 9: Physical and chemical properties

1	Information on basic physical and chemic	cal properties
	Appearance	
	Physical state	Solid (fine powder)
	Colour	Cyan
	Odour	Odourless
	Melting point/freezing point [°C]	100-120 (Toner)
	Boiling point or initial boiling point and boiling range	No data available.
	Flammability	No data available.
	Lower and upper explosion limit	No data available.
	Flash point	No data available.
	Auto-ignition temperature	No data available.
	Decomposition temperature	No data available.
	рН	No data available.
	Kinematic viscosity	No data available.
	Solubility	Almost insoluble in water.
	Partition coefficient: n-octanol/water (log value)	No data available.
	Vapour pressure	No data available.
	Density and/or relative density	1,2-1,4 (Toner)
	Relative vapour density	No data available.
	Particle characteristics	1-10 µm (Toner)

9.2 Other information

Dust explosion properties

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





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SECTION 10: Stability and reactivity

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 ₅₀)	> 2000 mg/kg (rat)* (Toner)	
	Dermal (LD ₅₀)	> 2000 mg/kg (rat)* (Toner)	
	Inhalation $(LC_{50}(4hr))$	> 5.10 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-sensitizing (mouse)* (Toner)	
		*(Based on test result of similar product)	





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11.1 Germ cell mutagenicity Ames test is negative (Toner).

Information of ingredients:

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

Carcinogenicity

Information of ingredients:

No carcinogen or potential carcinogen 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.

Reproductive toxicity

Information of ingredients:

No reproductive toxicant according to MAK, California Proposition 65, TRGS 905 and (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/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m³) exposure group (1). But no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

11.2 Information on other hazards

Endocrine disrupting properties No data available.

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 **Endocrine disrupting properties**

No data available.

12.7 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 or ID 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 Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-regulations

Regulation (EC) No 1005/2009 (on substances that deplete the ozone layer, Annex I and II): Not listed.

Regulation (EU) 2019/1021 (on persistent organic pollutants, Annex I as amended):

Not listed.

Regulation (EU) No 649/2012 (concerning the export and import of dangerous chemicals, Annex I and V as amended):

Not listed.

Regulation (EC) No 1907/2006 REACH Annex XVII as amended (Restrictions on use):

Not listed.

Regulation (EC) No 1907/2006 REACH Annex XIV as amended (Authorizations):

Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

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SECTION 16: Other information

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) 2020/878 with respect to SDSs.

Revision information: 3,9,11,12,14,16

Full text of H statements under sections 3: Not applicable.

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	Toxic Substances Control Act (US)
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

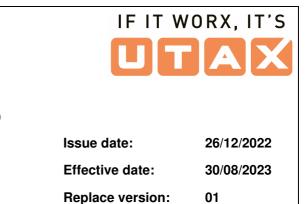
(1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, H. Muhle et al., Fundamental and Applied Toxicology 17.280-299 (1991) Lung Clearance and Retention of Toner, utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology 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 "CK5516C-TA-UT-02-EN"; 30/08/2023 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		
		358ci		
	Consumable name	CK-5516K		
	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	oplier 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.
1	

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SECT	ION 3: Compos	ition/information on in	gredients			
3.2	Mixtures					
	Chemical nam	<u>e</u>	CAS No	Weight%	Classi	fication (CLP)
	Polyester resin Carbon Black Wax Amorphous sili Aluminium con	ica	Confidential 1333-86-4 Confidential 7631-86-9 1344-28-1	80-90 3-8 3-8 1-2 < 1	None None None None None	
	Information o	f ingredients				
	(1) Substance,	which present a health	or environmenta	al hazard within	the mea	ning of CLP:
		None.				
	(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 ir	Annex XIII of
		None.				
	(4) Substance, REACH (S		ie list establishe	ed in accordance	e with Art	icle 59(1) of
		None.				
	See section 16	o for the full text of the H	statements dec	lared above.		
SECT	ION 4: First aid	measures				
4.1	Description o	f first aid measures				
	Inhalation:	Remove from exposure Consult a doctor in cas				ater.
	Skin contact:	Wash with soap and w	ater.			
	Eye contact:	Flush with water imme	diately and see	a doctor if irritat	ing.	
	Ingestion:	Rinse out the mouth. D Seek medical treatmer		glasses of wate	er to dilute	e.
4.2	Most importa	ost important symptoms and effects, both acute and delayed				
	Potential healt	h effects and symptoms				
	Inhalation:	Prolonged inhalation o product as intended do dusts.				





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4.2 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

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.

6.4 Reference to other sections

See section 13 for disposal information.



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SECTION 7: Handling and storage

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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) Aluminium insoluble compounds: 1 mg/m³ (Respirable fraction)

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust) Carbon black: 3,5 mg/m³ Amorphous silica: 80 mg/m³/%SiO₂ 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

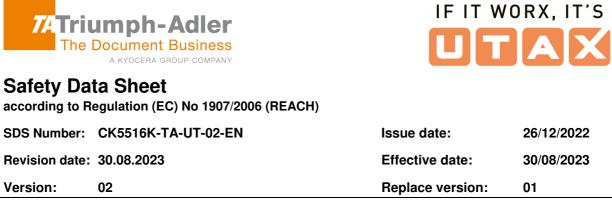
No additional information available.



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SECTION 9: Physical and chemical properties

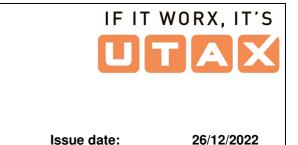
Information on basic physical and chemical properties		
Appearance	· ·	
Physical state	Solid (fine powder)	
Colour	Black	
Odour	Odourless	
Melting point/freezing point [°C]	100-120 (Toner)	
Boiling point or initial boiling point and boiling range	No data available.	
Flammability	No data available.	
Lower and upper explosion limit	No data available.	
Flash point	No data available.	
Auto-ignition temperature	No data available.	
Decomposition temperature	No data available.	
рН	No data available.	
Kinematic viscosity	No data available.	
Solubility	Almost insoluble in water.	
Partition coefficient: n-octanol/water (log value)	No data available.	
Vapour pressure	No data available.	
Density and/or relative density	1,2-1,4 (Toner)	
Relative vapour density	No data available.	
Particle characteristics	1-10 μm (Toner)	

9.2 Other information

Dust explosion properties

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





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SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

This product is stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur.

10.4 Conditions to avoid

None specified.

10.5 Incompatible materials

None specified.

10.6 Hazardous decomposition products

Hazardous decomposition products are not to be produced.

SECTION 11: Toxicological information

Information on toxicological effects 11.1 Based on available data, the classification criteria listed below are not met. Acute toxicity > 2000 mg/kg (rat)* (Toner). Oral (LD₅₀) Dermal (LD₅₀) > 2000 mg/kg (rat)* (Toner). Inhalation (LC₅₀(4hr)) > 5.09 mg/l (rat)* (Toner). Skin corrosion/irritation Acute skin irritation Non-irritant (rabbit)* (Toner). Serious eye damage/irritation Acute eye irritation Minimal irritant (rabbit)* (Toner). Respiratory or skin sensitization Skin sensitization Non-sensitizing (mouse)* (Toner). *(Based on test result of similar product)





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11.1 Germ cell mutagenicity Ames test is negative (Toner).

Information of ingredients:

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

Carcinogenicity

Information of ingredients:

No carcinogen or potential carcinogen (except 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 reevaluated 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)

Reproductive toxicity

Information of ingredients:

No reproductive toxicant according to MAK, California Proposition 65, TRGS 905 and (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/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m³) exposure group (1). But no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

11.2 Information on other hazards

Endocrine disrupting properties	No data available.		
Other information	No data available.		



Triumph-Adler The Document Business	IF IT WORX, IT'S		
Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)			
SDS Number: CK5516K-TA-UT-02-EN	Issue date:	26/12/2022	

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Effective date:

Replace version:

Revision date: 30.08.2023

Version: 02

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 **Endocrine disrupting properties**

No data available.

12.7 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 or ID 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 Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-regulations

Regulation (EC) No 1005/2009 (on substances that deplete the ozone layer, Annex I and II): Not listed.

Regulation (EU) 2019/1021 (on persistent organic pollutants, Annex I as amended):

Not listed.

Regulation (EU) No 649/2012 (concerning the export and import of dangerous chemicals, Annex I and V as amended):

Not listed.

Regulation (EC) No 1907/2006 REACH Annex XVII as amended (Restrictions on use):

Not listed.

Regulation (EC) No 1907/2006 REACH Annex XIV as amended (Authorizations):

Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

TA Triumph-Adler The Document Business A KYOCERA GROUP COMPANY		ORX, IT'S	
Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)			
SDS Number: CK5516K-TA-UT-02-EN	Issue date:	26/12/2022	
Revision date: 30.08.2023	Effective date:	30/08/2023	
Version: 02	Replace version:	01	

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) 2020/878 with respect to SDSs.

Revision information: 3,9,11,12,14,16

Full text of H statements under sections 3: Not applicable.

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	Toxic Substances Control Act (US)
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

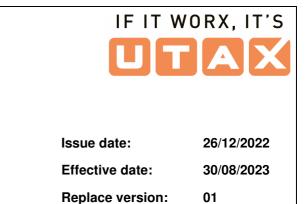
(1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, H. Muhle et al., Fundamental and Applied Toxicology 17.280-299 (1991) Lung Clearance and Retention of Toner, utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology 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 "CK5516K-TA-UT-02-EN"; 30/08/2023 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: CK5516M-TA-UT-02-EN

Revision date: 30.08.2023

Version: 02

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

1.1	Product identifier		
	Product name	Magenta Toner for	
		358ci	
	Consumable name	CK-5516M	
	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	oplier 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.

1		h-Adler Tent Business CERA GROUP COMPANY				DRX, IT'S
	Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)					
SDS N	lumber: CK551	6M-TA-UT-02-EN		Issue date:		26/12/2022
Revisi	ion date: 30.08.	2023		Effective dat	e:	30/08/2023
Versio	on: 02			Replace vers	sion:	01
SECTI	ON 3: Compos	ition/information on in	gredients			
3.2	Mixtures					
	Chemical name	<u>e</u>	CAS No	Weight%	<u>Classit</u>	fication (CLP)
	Polyester resin	. ,	Confidential	80-90	None	
	Organic pigme Wax	nt	Confidential Confidential	3-8 3-8	None None	
	Amorphous sili		7631-86-9	1-2	None	
	Aluminium con	•	1344-28-1	< 1	None	
	Information o	-				
	(1) Substance,	which present a health	or environmenta	al hazard within	the mea	ning of CLP:
		None.				
	(2) Substance,	which are assigned Cor	mmunity workpl	ace exposure li	mits:	
	None.					
(3) Substance, which are PBT or vPvB in accordance with the criteria set out in Annex XIII of REACH:						
		None.				
	(4) Substance, REACH (S	which are included in th VHC):	ie list establishe	d in accordanc	e with Art	icle 59(1) of
		None.				
	See section 16	for the full text of the H	statements dec	lared above.		
SECTI	ON 4: First aid	measures				
4.1	Description o	f first aid measures				
	Inhalation:	Remove from exposure Consult a doctor in cas				ater.
	Skin contact:	Wash with soap and w	ater.			
	Eye contact:	Flush with water imme	diately and see	a doctor if irrita	ting.	
	Ingestion:	Rinse out the mouth. D Seek medical treatmer		glasses of wate	er to dilute	e.
4.2	Most importa	nt symptoms and effec	ts, both acute	and delayed		
	Potential healt	h effects and symptoms				
	Inhalation:	Prolonged inhalation or product as intended do dusts.				





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

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4.2 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

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.

6.4 Reference to other sections

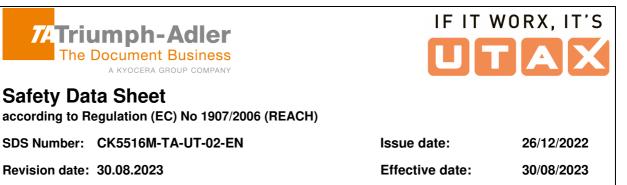
See section 13 for disposal information.



SDS Number: CK5516M-TA-UT-02-EN

Safety Data Sheet

Revision date: 30.08.2023



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Replace version:

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SECTION 7: Handling and storage

02

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)

3 mg/m³ (Respirable particles) Particles: 10 mg/m³ (Inhalable particles) Aluminium insoluble compounds: 1 mg/m³ (Respirable fraction)

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust) Amorphous silica: 80 mg/m³/%SiO₂ 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.



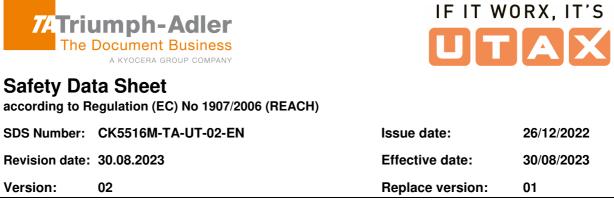
SDS Number: CK5516M-TA-UT-02-EN

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SECTION 9: Physical and chemical properties

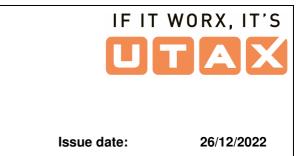
Information on basic physical and chem	ical properties
Appearance	
Physical state	Solid (fine powder)
Colour	Magenta
Odour	Odourless
Melting point/freezing point [°C]	100-120 (Toner)
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.
Lower and upper explosion limit	No data available.
Flash point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
рН	No data available.
Kinematic viscosity	No data available.
Solubility	Almost insoluble in water.
Partition coefficient: n-octanol/water (log value)	No data available.
Vapour pressure	No data available.
Density and/or relative density	1,2-1,4 (Toner)
Relative vapour density	No data available.
Particle characteristics	1-10 μm (Toner)

9.2 Other information

Dust explosion properties

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





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Version:

SECTION 10: Stability and reactivity

02

10.1 Reactivity

No data available.

10.2 Chemical stability

This product is stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur.

10.4 Conditions to avoid

None specified.

10.5 Incompatible materials

None specified.

10.6 Hazardous decomposition products

Hazardous decomposition products are not to be produced.

SECTION 11: Toxicological information

Information on toxicological effects 11.1 Based on available data, the classification criteria listed below are not met. Acute toxicity > 2000 mg/kg (rat)* (Toner). Oral (LD₅₀) Dermal (LD₅₀) > 2000 mg/kg (rat)* (Toner). Inhalation (LC₅₀(4hr)) > 5.08 mg/l (rat)* (Toner). Skin corrosion/irritation Acute skin irritation Non-irritant (rabbit)* (Toner). Serious eye damage/irritation Acute eye irritation Minimal irritant (rabbit)* (Toner). Respiratory or skin sensitization Skin sensitization Non-sensitizing (mouse)* (Toner). *(Based on test result of similar product)





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

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11.1 Germ cell mutagenicity Ames test is negative (Toner).

Information of ingredients:

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

Carcinogenicity

Information of ingredients:

No carcinogen or potential carcinogen 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.

Reproductive toxicity

Information of ingredients:

No reproductive toxicant according to MAK, California Proposition 65, TRGS 905 and (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/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m³) exposure group (1). But no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

11.2 Information on other hazards

Endocrine disrupting properties No data available.

Other information

No data available.



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Version: 02

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 **Endocrine disrupting properties**

No data available.

12.7 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 or ID number
	None.

14.2 **UN Proper shipping name**

None.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.

14.5 **Environmental hazards**

None.





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

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14.6 Special precautions for user

No additional information available.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-regulations

Regulation (EC) No 1005/2009 (on substances that deplete the ozone layer, Annex I and II): Not listed.

Regulation (EU) 2019/1021 (on persistent organic pollutants, Annex I as amended):

Not listed.

Regulation (EU) No 649/2012 (concerning the export and import of dangerous chemicals, Annex I and V as amended):

Not listed.

Regulation (EC) No 1907/2006 REACH Annex XVII as amended (Restrictions on use):

Not listed.

Regulation (EC) No 1907/2006 REACH Annex XIV as amended (Authorizations):

Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

TA Triumph-Adler The Document Business A KYOCERA GROUP COMPANY			RX, IT'S
Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)			
SDS Number:	CK5516M-TA-UT-02-EN	Issue date:	26/12/2022
Revision date:	30.08.2023	Effective date:	30/08/2023
Version:	02	Replace version:	01

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) 2020/878 with respect to SDSs.

Revision information: 3,9,11,12,14,16

Full text of H statements under sections 3: Not applicable.

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	Toxic Substances Control Act (US)
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

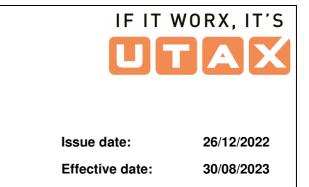
(1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, H. Muhle et al., Fundamental and Applied Toxicology 17.280-299 (1991) Lung Clearance and Retention of Toner, utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology 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 "CK5516M-TA-UT-02-EN"; 30/08/2023 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.





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Replace version:

Safety Data Sheet

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

SDS Number: CK5516Y-TA-UT-02-EN

Revision date: 30.08.2023

Version: 02

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

1.1	Product identifier	
	Product name	Yellow Toner for
		358ci
	Consumable name	CK-5516Y
	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 supplier of the safety data sheet		er of the safety data sheet
	Manufacturer	KYOCERA Document Solutions Inc.
	Address	1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan
	Supplier	TA Triumph-Adler GmbH
	Address	Deelbögenkamp 4c 22297 Hamburg Germany
1.4	Emergency telephon	e number +49 (0) 40 / 528490 (This number is available only during office hours)

SECTION 2: Hazards identification

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

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	The Docum	nent Business				
Safe	ety Data Sh	eet				
	-	on (EC) No 1907/2006 (R	EACH)			
SDS N	lumber: CK551	6Y-TA-UT-02-EN		Issue date:	26/12/2022	
Revisi	ion date: 30.08.	2023		Effective date	30/08/2023	
Versio	on: 02			Replace vers	on: 01	
SECTI	ON 3: Compos	ition/information on in	gredients			
3.2	Mixtures					
	Chemical name	<u>e</u>	CAS No	Weight%	Classification (CLP)	_
	Polyester resin	. ,	Confidential	80-90	None	
	Organic pigme Wax	nt	Confidential Confidential	3-8 3-8	None None	
	Amorphous sili	ica	7631-86-9	1-2	None	
	Aluminium con	npound	1344-28-1	< 1	None	
	Information o	f ingredients				
	(1) Substance,	which present a health	or environmenta	al hazard within	the meaning of CLP:	
		None.				
	(2) Substance,	which are assigned Cor	mmunity workpla	ace exposure lin	nits:	
		None.				
	(3) Substance, REACH:	which are PBT or vPvB	in accordance v	with the criteria s	set out in Annex XIII o	f
		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	6 for the full text of the H	statements dec	lared above.		
SECTI	ON 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 w	ater.			
	Eye contact:	Flush with water imme	diately and see	a doctor if irritati	ng.	
	Ingestion:	Rinse out the mouth. D Seek medical treatmer		glasses of wate	r to dilute.	
4.2	Most importa	nt symptoms and effec	ts, both acute	and delayed		
	Potential healt	h effects and symptoms				
	Inhalation:	Prolonged inhalation o product as intended do dusts.				





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

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4.2 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

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.

6.4 Reference to other sections

See section 13 for disposal information.





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SECTION 7: Handling and storage

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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)

3 mg/m³ (Respirable particles) Particles: 10 mg/m³ (Inhalable particles) Aluminium insoluble compounds: 1 mg/m³ (Respirable fraction)

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust) Amorphous silica: 80 mg/m³/%SiO₂ 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.



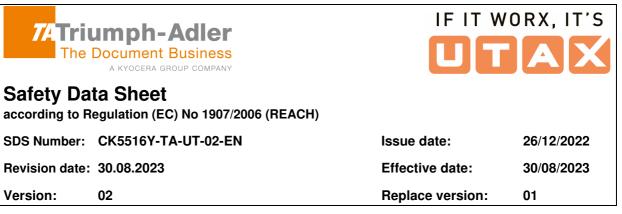
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SECTION 9: Physical and chemical properties

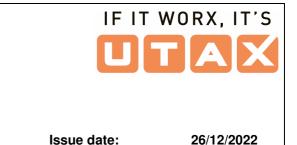
Information on basic physical and chemic	cal properties
Appearance	
Physical state	Solid (fine powder)
Colour	Yellow
Odour	Odourless
Melting point/freezing point [°C]	100-120 (Toner)
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.
Lower and upper explosion limit	No data available.
Flash point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
рН	No data available.
Kinematic viscosity	No data available.
Solubility	Almost insoluble in water.
Partition coefficient: n-octanol/water (log value)	No data available.
Vapour pressure	No data available.
Density and/or relative density	1,2-1,4 (Toner)
Relative vapour density	No data available.
Particle characteristics	1-10 µm (Toner)

9.2 Other information

Dust explosion properties

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





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SECTION 10: Stability and reactivity

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10.1 Reactivity

No data available.

10.2 Chemical stability

This product is stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur.

10.4 Conditions to avoid

None specified.

10.5 Incompatible materials

None specified.

10.6 Hazardous decomposition products

Hazardous decomposition products are not to be produced.

SECTION 11: Toxicological information

Information on toxicological effects 11.1 Based on available data, the classification criteria listed below are not met. Acute toxicity > 2000 mg/kg (rat)* (Toner). Oral (LD₅₀) Dermal (LD₅₀) > 2000 mg/kg (rat)* (Toner). Inhalation (LC₅₀(4hr)) > 5.10 mg/l (rat)* (Toner). Skin corrosion/irritation Acute skin irritation Non-irritant (rabbit)* (Toner). Serious eye damage/irritation Acute eye irritation Minimal irritant (rabbit)* (Toner). Respiratory or skin sensitization Skin sensitization Non-sensitizing (mouse)* (Toner). *(Based on test result of similar product)





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11.1 Germ cell mutagenicity Ames test is negative (Toner).

Information of ingredients:

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

Carcinogenicity

Information of ingredients:

No carcinogen or potential carcinogen 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.

Reproductive toxicity

Information of ingredients:

No reproductive toxicant according to MAK, California Proposition 65, TRGS 905 and (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/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m³) exposure group (1). But no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

11.2 Information on other hazards

Endocrine disrupting properties No data available.

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 **Endocrine disrupting properties**

No data available.

12.7 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 or ID 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 Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-regulations

Regulation (EC) No 1005/2009 (on substances that deplete the ozone layer, Annex I and II): Not listed.

Regulation (EU) 2019/1021 (on persistent organic pollutants, Annex I as amended):

Not listed.

Regulation (EU) No 649/2012 (concerning the export and import of dangerous chemicals, Annex I and V as amended):

Not listed.

Regulation (EC) No 1907/2006 REACH Annex XVII as amended (Restrictions on use):

Not listed.

Regulation (EC) No 1907/2006 REACH Annex XIV as amended (Authorizations):

Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

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SECTION 16: Other information

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) 2020/878 with respect to SDSs.

Revision information: 3,9,11,12,14,16

Full text of H statements under sections 3: Not applicable.

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	Toxic Substances Control Act (US)
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

(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 "CK5516Y-TA-UT-02-EN"; 30/08/2023 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.