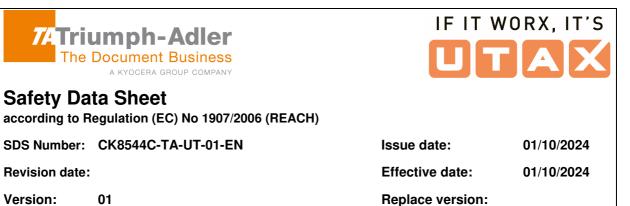


SDS Number: CK8544C-TA-UT-01-EN

01



Revision date:

Safety Data Sheet

Version:

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

1.1	Product identifier	
	Product name	Cyan Toner for
		2509ci
	Consumable name	CK-8544C
	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.
1	

7	/ Triumon	h-Adlar		IFI	T WORX, IT'S
	The Docum	h-Adler hent Business cera group company		U	TAX
Safe	ty Data Sh	eet			
		on (EC) No 1907/2006 (R	EACH)		
SDS N	umber: CK854	4C-TA-UT-01-EN		Issue date:	01/10/2024
Revisi	on date:			Effective date	e: 01/10/2024
Versio	on: 01			Replace versi	on:
SECTIO	ON 3: Compos	ition/information on in	gredients		
3.2	Mixtures				
	Chemical name	<u>e</u>	CAS No	Weight%	Classification (CLP)
	Polyester resin		Confidential	70-80	None
	Organic pigme Ferrite (Ferrite	nt including manganese)	Confidential 66402-68-4	3-8 3-8 (as Mn: <1	None) None
	Amorphous sili	ica	7631-86-9	1-5	None
	Aluminium con		1344-28-1	< 1	None
	Information of	-			
	(1) Substance,	which present a health	or environmenta	al hazard within t	the meaning of CLP:
None.					
(2) Substance, which are assigned Community workpl None.		ace exposure inf	IIIS:		
	(3) Substance, REACH:	which are PBT or vPvB	in accordance	with the criteria s	set out in Annex XIII of
None.					
	(4) Substance, REACH (S	which are included in th VHC):	ne list establishe	d in accordance	with Article 59(1) of
		None.			
	See section 16	for the full text of the H	statements dec	lared above.	
SECTIO	ON 4: First aid	measures			
4.1	Description of	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	ets, both acute	and delayed	
	Potential healt	h effects and symptoms			
	Inhalation:				ng damage. Use of this ation of excessive toner





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

SDS Number:	CK8544C-TA-UT-01-EN	Issue date:	01/10/2024
Revision date:		Effective date:	01/10/2024
Version:	01	Replace version:	

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.





01/10/2024

Issue date:

Effective date:

Replace version:

Safety Data Sheet

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

SDS Number: CK8544C-TA-UT-01-EN

Revision date:

Version:

SECTION 7: Handling and storage

01

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) Manganese inorganic compounds (Ferrite component):

0.1 mg/m³ (Inhalable fraction)

0.02 mg/m³ (Respirable fraction) (as Mn

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

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust)5 mg/m³ (Respirable fraction)Manganese compounds (Ferrite component): 5 mg/m³ (Ceiling) (as Mn)Amorphous silica: 80 mg/m³/%SiO2

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.

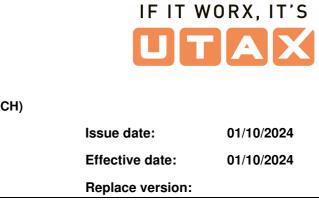
Personal protective equipment

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: CK8544C-TA-UT-01-EN

Revision date:

Version: 01

SECTION 9: Physical and chemical properties

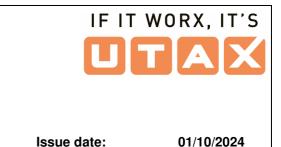
1	Information on basic physical and chemic	cal properties	
	Appearance		
	Physical state	Solid (fine powder)	
	Colour	Cyan	
	Odour	Odourless	
	Melting point/freezing point [°C]	100-120 (Toner)	
	Boiling point or initial boiling point and boiling range	No data available.	
	Flammability	No data available.	
	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 [g/cm3]	1.2-1.4 (Toner)	
	Relative vapour density	Not applicable.	
	Particle characteristics [µm]	1-10 (Toner) 30-50 (Carrier)	

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: CK8544C-TA-UT-01-EN

Revision date:

Version:

Effective date: 01/10/2024

Replace version:

SECTION 10: Stability and reactivity

01

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

li	Information on hazard classes as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria listed below are not met.			
E				
A	Acute toxicity			
	Oral (LD50)	> 2000 mg/kg (rat)* (Toner) > 2000 mg/kg (rat)** (Carrier)		
	Dermal (LD50)	No data available (Toner). No data available (Carrier).		
	Inhalation (LC50(4hr))	> 5.10 mg/l (rat)* (Toner)		
S	Skin corrosion/irritation			
	Acute skin irritation	Non-irritant (rabbit)* (Toner) Non-irritant (rabbit)** (Carrier)		
S	Serious eye damage/irritation			
	Acute eye irritation	Mild irritant (rabbit)* (Toner)		
F	Respiratory or skin sensitisation			
	Skin sensitisation	Non-sensitising (mouse)* (Toner) Non-sensitising** (Carrier)		



SDS Number: CK8544C-TA-UT-01-EN

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

Safety Data Sheet

Revision date:



Versio	on: 01	Replace version:
11.1	Germ cell mutagenicity	AMES test is negative (Toner). AMES test is negative** (Carrier). *(Based on test result of similar product) **(Based on test result of constituent materials)
	Information of ingredients:	, , , , , , , , , , , , , , , , , , ,
	No mutagen accordin	g to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.
	Carcinogenicity	
	Information of ingredients:	
	Industrial Health, ACC	ential carcinogen according to IARC, Japan Association on GIH, EPA, OSHA, NTP, MAK, California Proposition 65, No 1272/2008 Annex VI.
	Reproductive toxicity	
	Information of ingredients:	
	No reproductive toxic (EC) No 1272/2008 A	ant according to MAK, California Proposition 65, TRGS 905 and Annex VI.
	STOT-single exposure	No data available.
	STOT-repeated exposure	No data available.
	Aspiration hazard	No data available.
	Chronic effects	
	degree of lung fibrosi (16 mg/m ³) exposure of the animal in the m	hronic inhalation exposure to a typical toner, a mild to moderate is was observed in 92% of the rats in the high concentration group, and a minimal to mild degree of fibrosis was noted in 22% hiddle (4mg/m ³) exposure group (1). But no pulmonary change owest (1mg/m ³) exposure group, the most relevant level to osures.
11.2	Information on other hazard	is
	Endocrine disrupting prope	erties No data available.
	Other information	No data available.





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

SDS Number: CK8544C-TA-UT-01-EN

Revision date:

Version: 01

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. The toner/developer/ink contains synthetic polymer microparticles. When disposing of this product/parts, avoid release of contents into the environment. Dispose of contents(toner/developer/ink) in accordance with local/regional/national/ international regulations.

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.

Issue date:	01/10/2024
	01/10/2021

01/10/2024

Effective date:

Replace version:





01/10/2024

Issue date:

Effective date:

Replace version:

Safety Data Sheet

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

SDS Number: CK8544C-TA-UT-01-EN

Revision date:

Version: 01

14.5 Environmental hazards

None.

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 (EU) No 2024/590 (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 (Authorisations):

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.

aulatione/l	ogielation

	umph-Adler Document Business A kyocera group company		VORX, IT'S
Safety Da according to I	ata Sheet Regulation (EC) No 1907/2006 (REACH)		
SDS Number:	CK8544C-TA-UT-01-EN	Issue date:	01/10/2024
Revision date	:	Effective date:	01/10/2024
Version:	01	Replace version:	

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:

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
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, Authorisation 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

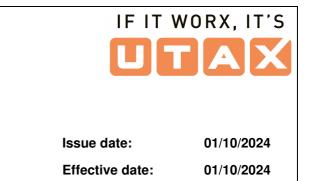
(1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, H. Muhle et al., Fundamental and Applied Toxicology 17.280-299 (1991) Lung Clearance and Retention of Toner, utilising a Tracer Technique, during Chronic Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology 17.300-313 (1991)

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

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

The contents are in accordance with Material Safety Data Sheet "CK8544C-TA-UT-01-EN"; 01/10/2024 of the (4) KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.





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

SDS Number: CK8544K-TA-UT-01-EN

Revision date:

Version: 01

Replace version:

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

1.1	Product identifier	
	Product name	Black Toner for
		2509ci
	Consumable name	CK-8544K
	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.

		IF IT WORX, IT'S			
The Document Business			UTAX		
		ERA GROUP COMPANY			
Safety	/ Data Sh	eet			
accordin	g to Regulatio	n (EC) No 1907/2006 (RI	EACH)		
SDS Nun	nber: CK854	4K-TA-UT-01-EN		Issue date:	01/10/2024
Revision	date:			Effective date	: 01/10/2024
Version:	01			Replace version:	
SECTION	3: Composi	tion/information on ing	gredients		
3.2 N	lixtures				
<u>C</u>	Chemical name	2	CAS No	Weight%	Classification (CLP)
F	Polyester resin		Confidential	80-90	None
	Carbon black	including manganese)	1333-86-4 66402-68-4	3-8 3-8 (as Mn: < 1	None
	Amorphous silic	• • •	7631-86-9	1-5	None
A	luminium com	pound	1344-28-1	< 1	None
	nformation of	-			
(1) Substance,	which present a health o	or environmenta	I hazard within t	he meaning of CLP:
		None.			
(2	2) Substance,	which are assigned Con	nmunity workpla	ce exposure lim	its:
		None.			
(;	3) Substance, REACH:	which are PBT or vPvB	in accordance w	vith the criteria s	et out in Annex XIII of
		None.			
(•	4) Substance, REACH (SN	which are included in th /HC):	e list established	d in accordance	with Article 59(1) of
		None.			
S	See section 16	for the full text of the H	statements decl	ared above.	
SECTION	4: First aid	measures			
4.1 C	Description of	first aid measures			
lı	nhalation:	Remove from exposure Consult a doctor in cas			-
S	Skin contact:	Wash with soap and wa	ater.		
E	ye contact:	Flush with water immed	diately and see a	a doctor if irritatin	ng.
lı	ngestion:	Rinse out the mouth. D Seek medical treatmen		glasses of water	to dilute.
4.2 N	lost importan	it symptoms and effect	ts, both acute a	ind delayed	
F	otential health	effects and symptoms			
lı	nhalation:	Prolonged inhalation of product as intended do dusts.			





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

SDS Number:	CK8544K-TA-UT-01-EN	Issue date:	01/10/2024
Revision date:		Effective date:	01/10/2024
Version:	01	Replace version:	

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.





01/10/2024

Safety Data Sheet

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

SDS Number: CK8544K-TA-UT-01-EN

Revision date:

Version:

SECTION 7: Handling and storage

01

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) Manganese inorganic compounds (Ferrite component):

0.1 mg/m³ (Inhalable fraction)

Issue date:

Effective date:

Replace version:

0.02 mg/m³ (Respirable fraction) (as Mn)

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

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust)5 mg/m³ (Respirable fraction)Carbon black: 3.5 mg/m³Manganese compounds (Ferrite component): 5 mg/m³ (Ceiling) (as Mn)Amorphous silica: 80 mg/m³/%SiO₂

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.

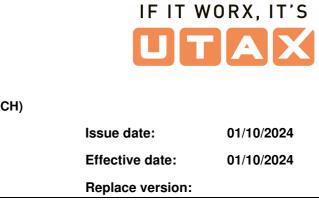
Personal protective equipment

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: CK8544K-TA-UT-01-EN

Revision date:

Version: 01

SECTION 9: Physical and chemical properties

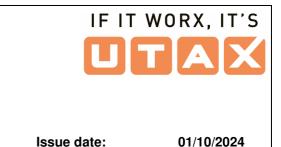
Inform	nation on basic physical and chemic	cal properties		
Appear	ance		-	
	Physical state	Solid (fine powder)		
	Colour	Black		
	Odour	Odourless		
Melting	point/freezing point [°C]	100-120 (Toner)		
Boiling	point or initial boiling point and boiling range	No data available.		
Flamma	ability	No data available.		
Lower a	and upper explosion limit	No data available.		
Flash p	oint	No data available.		
Auto-igi	nition temperature	No data available.		
Decom	position temperature	No data available.		
рН		No data available.		
Kinema	tic viscosity	No data available.		
Solubili	iy	Almost insoluble in water.		
Partition	n coefficient: n-octanol/water (log value)	No data available.		
Vapour	pressure	No data available.		
Density	and/or relative density [g/cm3]	1.2-1.4 (Toner)		
Relative	e vapour density	Not applicable.		
Particle	characteristics [µm]	1-10 (Toner) 30-50 (Carrier)		

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: CK8544K-TA-UT-01-EN

Revision date:

Version:

Effective date: 01/10/2024

Replace version:

01

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.

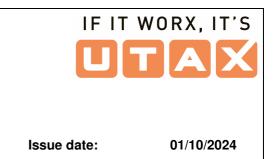
SECTION 11: Toxicological information

11.1	Information on hazard classes as defined in Regulation (EC) No 1272/2008		
	Based on available data, the classification criteria listed below are not met.		
	Acute toxicity		
	Oral (LD50)	> 2000 mg/kg (rat)* (Toner) > 2000 mg/kg (rat)** (Carrier)	
	Dermal (LD50)	No data available (Toner). No data available (Carrier).	
	Inhalation (LC50(4hr))	> 5.09 mg/l (rat)* (Toner)	
	Skin corrosion/irritation		
	Acute skin irritation	Non-irritant (rabbit)* (Toner) Non-irritant (rabbit)** (Carrier)	
	Serious eye damage/irritation	n	
	Acute eye irritation	Mild irritant (rabbit)* (Toner)	
	Respiratory or skin sensitisa	tion	
	Skin sensitisation	Non-sensitising (mouse)* (Toner) Non-sensitising** (Carrier)	



SDS Number: CK8544K-TA-UT-01-EN

Germ cell mutagenicity



01/10/2024

Revision date:

Safety Data Sheet

Effective date:

Version: 01

11.1

Replace version:

AMES test is negative (Toner).

AMES test is negative** (Carrier).

*(Based on test result of similar product) **(Based on test result of constituent materials)

Information of ingredients:

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

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 exposur	e No data available.
5101-repeated exposur	e no dala avallad

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.





01/10/2024

Safety Data Sheet

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

SDS Number: CK8544K-TA-UT-01-EN

Revision date:

Version: 01

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. The toner/developer/ink contains synthetic polymer microparticles. When disposing of this product/parts, avoid release of contents into the environment. Dispose of contents(toner/developer/ink) in accordance with local/regional/national/ international regulations.

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.

rma	tion	

Effective date:

Issue date:

Replace version:





01/10/2024

Issue date:

Effective date:

Replace version:

Safety Data Sheet

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

SDS Number: CK8544K-TA-UT-01-EN

Revision date:

Version: 01

14.4 Packing group

None.

14.5 Environmental hazards

None.

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 Begulation (ELI) No 2024/590 (on substances that deplete the ozone layer. Appendix and II):

Regulation (EU) No 2024/590 (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 (Authorisations):

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.

74 Triumph-Adler	IF IT WORX, IT'S	
The Document Business		TAX
Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)		
SDS Number: CK8544K-TA-UT-01-FN	Issue date:	01/10/2024

Issue date:	01/10/2024
Effective date:	01/10/2024

Revision date: Version:

Replace version:

SECTION 16: Other information

01

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:

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

Abbreviations and acronyms

		-
А	CGIH	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
-	LP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
	PA	Environmental Protection Agency (Integrated Risk Information System) (US)
L/	ARC	International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks to Humans)
Ν	IAK	Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)
N	ITP	National Toxicology Program (Report on Carcinogens) (US)
C	OSHA	Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)
F	BT	Persistent, Bio accumulative and Toxic
F	'EL	Permissible Exposure Limits
F	Proposition 65	California, Safe Drinking Water and Toxic Enforcement Act of 1986
F	REÁCH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of
		Chemicals
S	тот	Specific target organ toxicity
S	SVHC	Substances of Very High Concern
Т	RGS 905	Technische Regeln für Gefahrstoffe (Deutschland)
Т	SCA	Toxic Substances Control Act (US)
	WA	Time Weighted Average
	JN	United Nations
-	PvB	very Persistent and very Bio accumulative
	VHMIS	
V		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, utilising a Tracer Technique, during Chronic Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology 17.300-313 (1991)

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

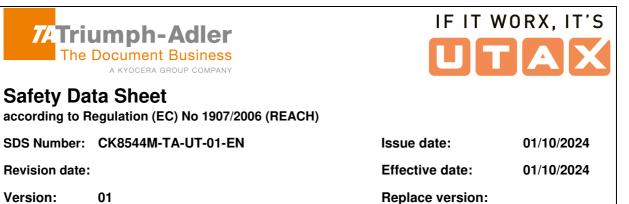
NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational (3) Exposure to Titanium Dioxide DRAFT"

The contents are in accordance with Material Safety Data Sheet "CK8544K-TA-UT-01-EN"; 01/10/2024 of the (4) KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.



SDS Number: CK8544M-TA-UT-01-EN

01



Revision date: Version:

Safety Data Sheet

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

1.1	Product identifier	
	Product name	Magenta Toner for
		2509ci
	Consumable name	CK-8544M
	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	1.3 Details of the supplier 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.

TA Triumph-Adler The Document Business A KYOCERA GROUP COMPANY				T WORX, IT'S			
	Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)						
SDS Ni	umber: CK854	4M-TA-UT-01-EN		Issue date:	01/10/2024		
Revisio	on date:			Effective date	: 01/10/2024		
Versio	n: 01			Replace versi	on:		
SECTIO	N 3: Composi	tion/information on ing	radiante				
			greatents				
3.2	Mixtures		040.1	144 - 1 104			
	Chemical name	2	<u>CAS No</u>	<u>Weight%</u>	Classification (CLP)		
	Polyester resin Organic pigmer Ferrite (Ferrite Amorphous silie Aluminium com	including manganese) ca	Confidential Confidential 66402-68-4 7631-86-9 1344-28-1	70-80 3-8 3-8 (as Mn: <1 1-5 < 1	None None) None None None		
	Information of	ingredients					
	(1) Substance,	which present a health o	or environmenta	I hazard within t	he meaning of CLP:		
		None.					
	(2) Substance,	which are assigned Con	nmunity workpla	ace exposure lim	iits:		
		None.					
	(3) Substance, REACH:	which are PBT or vPvB	in accordance v	vith the criteria s	et out in Annex XIII of		
		None.					
	(4) Substance, REACH (S)	which are included in th /HC):	e list establishe	d in accordance	with Article 59(1) of		
		None.					
	See section 16	for the full text of the H	statements decl	ared above.			
SECTIO	N 4: First aid	measures					
4.1	Description of	first aid measures					
	Inhalation:	Remove from exposure Consult a doctor in cas					
	Skin contact:	Wash with soap and wa	ater.				
	Eye contact:	Flush with water immed	diately and see a	a doctor if irritatii	ng.		
	Ingestion:	Rinse out the mouth. D Seek medical treatmen		glasses of water	to dilute.		
4.2	Most importan	it symptoms and effect	ts, both acute a	and delayed			
	Potential health	effects and symptoms					
	Inhalation:	Prolonged inhalation of product as intended do dusts.					





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

SDS Number:	CK8544M-TA-UT-01-EN	Issue date:	01/10/2024
Revision date		Effective date:	01/10/2024
Version:	01	Replace version:	

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.





01/10/2024

Issue date:

Effective date:

Replace version:

Safety Data Sheet

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

SDS Number: CK8544M-TA-UT-01-EN

Revision date:

Version:

SECTION 7: Handling and storage

01

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) Manganese inorganic compounds (Ferrite component):

0.1 mg/m³ (Inhalable fraction)

0.02 mg/m³ (Respirable fraction) (as Mn

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

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust)5 mg/m³ (Respirable fraction)Manganese compounds (Ferrite component): 5 mg/m³ (Ceiling) (as Mn)Amorphous silica: 80 mg/m³/%SiO2

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.

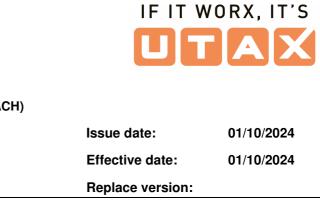
Personal protective equipment

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: CK8544M-TA-UT-01-EN

Revision date:

Version: 01

SECTION 9: Physical and chemical properties

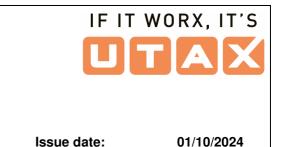
Information on basic physical and chemic	cal properties	
Appearance		
Physical state	Solid (fine powder)	
Colour	Magenta	
Odour	Odourless	
Melting point/freezing point [°C]	100-120 (Toner)	
Boiling point or initial boiling point and boiling range	No data available.	
Flammability	No data available.	
Lower 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 [g/cm ³]	1.2-1.4 (Toner)	
Relative vapour density	Not applicable.	
Particle characteristics [µm]	1-10 (Toner) 30-50 (Carrier)	

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: CK8544M-TA-UT-01-EN

Revision date:

Version:

Issue date:01/10/2024Effective date:01/10/2024Replace version:

SECTION 10: Stability and reactivity

01

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

Informa	tion on hazard classe	s as defined in Regulation (EC) No 1272/2008	
Based on available data, the classification criteria listed below are not met.			
Acute to	oxicity		
(Oral (LD50)	> 2000 mg/kg (rat)* (Toner) > 2000 mg/kg (rat)** (Carrier)	
I	Dermal (LD50)	No data available (Toner). No data available (Carrier).	
I	Inhalation (LC50(4hr))	> 5.08 mg/l (rat)* (Toner)	
Skin co	rrosion/irritation		
	Acute skin irritation	Non-irritant (rabbit)* (Toner) Non-irritant (rabbit)** (Carrier)	
Serious eye damage/irritation			
	Acute eye irritation	Mild irritant (rabbit)* (Toner)	
Respiratory or skin sensitisation			
:	Skin sensitisation	Non-sensitising (mouse)* (Toner) Non-sensitising** (Carrier)	





Safety	Data	She	et	
	1. D	1 - 1		

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

SDS Number:	CK8544M-TA-UT-01-EN	Issue date:	01/10/2024
Revision date:		Effective date:	01/10/2024
Version:	01	Replace version:	

11.1	Germ cell mutagenicity	AMES test is negative (Toner). AMES test is negative** (Carrier).		
		*(Based on test result of similar product)		
		**(Based on test result of constituent materials)		
	Information of ingredients:			
	No mutagen according to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.			
	Carcinogenicity			
	Information of ingredients:			
	Industrial Health, ACG	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 toxical (EC) No 1272/2008 An	nt according to MAK, California Proposition 65, TRGS 905 and nex VI.		
	STOT-single exposure	No data available.		
	STOT-repeated exposure	No data available.		
	Aspiration hazard	No data available.		
Chronic effects				
	degree of lung fibrosis (16 mg/m ³) exposure g of the animal in the mic	ronic inhalation exposure to a typical toner, a mild to moderate was observed in 92% of the rats in the high concentration roup, and a minimal to mild degree of fibrosis was noted in 22% ddle (4mg/m ³) exposure group (1). But no pulmonary change yest (1mg/m ³) exposure group, the most relevant level to ures.		
11.2	Information on other hazards	3		
	Endocrine disrupting proper	ties No data available.		
	Other information	No data available.		





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

SDS Number: CK8544M-TA-UT-01-EN

Revision date:

Version: 01

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. The toner/developer/ink contains synthetic polymer microparticles. When disposing of this product/parts, avoid release of contents into the environment. Dispose of contents(toner/developer/ink) in accordance with local/regional/national/ international regulations.

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.

Issue date:	01/10/2024
	01/10/2024

01/10/2024

Effective date:

Replace version:





01/10/2024

Issue date:

Effective date:

Replace version:

Safety Data Sheet

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

SDS Number: CK8544M-TA-UT-01-EN

Revision date:

Version: 01

14.5 Environmental hazards

None.

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 (EU) No 2024/590 (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 (Authorisations):

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.

	umph-Adler Document Business A KYOCERA GROUP COMPANY		VORX, IT'S
Safety Da according to F	t a Sheet Regulation (EC) No 1907/2006 (REACH)		
SDS Number:	CK8544M-TA-UT-01-EN	Issue date:	01/10/2024
Revision date:		Effective date:	01/10/2024
Version:	01	Replace version:	

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:

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
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, Authorisation 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, utilising a Tracer Technique, during Chronic Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology 17.300-313 (1991)

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

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

The contents are in accordance with Material Safety Data Sheet "CK8544M-TA-UT-01-EN"; 01/10/2024 of the (4) KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.





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

SDS Number: CK8544Y-TA-UT-01-EN

Revision date:

Version: 01

Replace version:

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

1.1	I.1 Product identifier	
	Product name	Yellow Toner for
		2509ci
	Consumable name	CK-8544Y
	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.

TA Triumph-Adler The Document Business A KYOCERA GROUP COMPANY			T WORX, IT'S		
	ty Data Shi ing to Regulatio	eet on (EC) No 1907/2006 (RI	EACH)		
SDS Nu	umber: CK854	4Y-TA-UT-01-EN		Issue date:	01/10/2024
Revisio	on date:			Effective date:	: 01/10/2024
Versio	n: 01			Replace version	on:
SECTIO	N 3: Composi	tion/information on ing	aredients		
	-		jiouronto		
3.2	Mixtures			M/aiabt0/	Classification (CLD)
	Chemical name	2	<u>CAS No</u>	<u>Weight%</u> 70-80	Classification (CLP) None
	Polyester resin Organic pigmer Ferrite (Ferrite Amorphous silie Aluminium com	including manganese) ca	Confidential Confidential 66402-68-4 7631-86-9 1344-28-1	3-8 3-8 (as Mn: <1) 1-5 < 1	None
	Information of	ingredients			
	(1) Substance,	which present a health of	or environmenta	l hazard within th	ne meaning of CLP:
		None.			
	(2) Substance,	which are assigned Con	nmunity workpla	ce exposure lim	its:
		None.			
	(3) Substance, REACH:	which are PBT or vPvB	in accordance v	vith the criteria s	et out in Annex XIII of
		None.			
	(4) Substance, REACH (S)	which are included in th VHC):	e list established	d in accordance	with Article 59(1) of
		None.			
	See section 16	for the full text of the H	statements decl	ared above.	
SECTIC	ON 4: First aid	measures			
4.1	Description of	first aid measures			
	Inhalation:	Remove from exposure Consult a doctor in cas			
	Skin contact:	Wash with soap and wa	ater.		
	Eye contact:	Flush with water immed	diately and see a	a doctor if irritatir	ıg.
	Ingestion:	Rinse out the mouth. D Seek medical treatmen		glasses of water	to dilute.
4.2	Most importar	nt symptoms and effect	ts, both acute a	and delayed	
	Potential health	n effects and symptoms			
	Inhalation:	Prolonged inhalation of product as intended do dusts.			





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

SDS Number:	CK8544Y-TA-UT-01-EN	Issue date:	01/10/2024
Revision date		Effective date:	01/10/2024
Version:	01	Replace version:	

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.





01/10/2024

Issue date:

Effective date:

Replace version:

Safety Data Sheet

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

SDS Number: CK8544Y-TA-UT-01-EN

Revision date:

Version:

SECTION 7: Handling and storage

01

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) Manganese inorganic compounds (Ferrite component):

0.1 mg/m³ (Inhalable fraction)

0.02 mg/m³ (Respirable fraction) (as Mn

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

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust)5 mg/m³ (Respirable fraction)Manganese compounds (Ferrite component): 5 mg/m³ (Ceiling) (as Mn)Amorphous silica: 80 mg/m³/%SiO2

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.

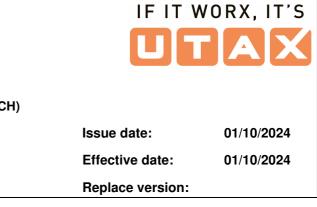
Personal protective equipment

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: CK8544Y-TA-UT-01-EN

Revision date:

Version: 01

SECTION 9: Physical and chemical properties

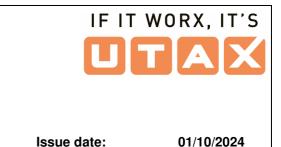
.1	Information on basic physical and chemic	al properties		
	Appearance			
	Physical state	Solid (fine powder)		
	Colour	Yellow		
	Odour	Odourless		
	Melting point/freezing point [°C]	100-120 (Toner)		
	Boiling point or initial boiling point and boiling range	No data available.		
	Flammability	No data 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.		
	pH	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 [g/cm ³]	1.2-1.4 (Toner)		
	Relative vapour density	Not applicable.		
	Particle characteristics [µm]	1-10 (Toner) 30-50 (Carrier)		

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: CK8544Y-TA-UT-01-EN

Revision date:

Version:

Effective date: 01/10/2024

Replace version:

01

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	n on hazard classe	s as defined in Regulation (EC) No 1272/2008
Based on av	vailable data, the cla	assification criteria listed below are not met.
Acute toxic	ity	
Ora	l (LD50)	> 2000 mg/kg (rat)* (Toner) > 2000 mg/kg (rat)** (Carrier)
Den	mal (LD50)	No data available (Toner). No data available (Carrier).
Inha	alation (LC50(4hr))	> 5.10 mg/l (rat)* (Toner)
Skin corros	sion/irritation	
Acu	te skin irritation	Non-irritant (rabbit)* (Toner) Non-irritant (rabbit)** (Carrier)
Serious eye	e damage/irritation	1
Acu	te eye irritation	Mild irritant (rabbit)* (Toner)
Respiratory	y or skin sensitisat	tion
Skir	n sensitisation	Non-sensitising (mouse)* (Toner) Non-sensitising** (Carrier)



SDS Number: CK8544Y-TA-UT-01-EN

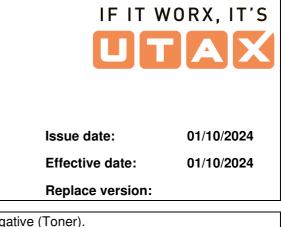
01

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

Safety Data Sheet

Revision date:

Version:



11.1	Germ cell mutagenicity	AMES test is negative (Toner). AMES test is negative** (Carrier). *(Based on test result of similar product) **(Based on test result of constituent materials)
	Information of ingredients:	(based on lest result of constituent materials)
	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 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 toxica (EC) No 1272/2008 An	nt according to MAK, California Proposition 65, TRGS 905 and nex VI.
	STOT-single exposure	No data available.
	STOT-repeated exposure	No data available.
	Aspiration hazard	No data available.
	Chronic effects	
	degree of lung fibrosis (16 mg/m ³) exposure g of the animal in the mic	ronic inhalation exposure to a typical toner, a mild to moderate was observed in 92% of the rats in the high concentration proup, and a minimal to mild degree of fibrosis was noted in 22% ddle (4mg/m ³) exposure group (1). But no pulmonary change west (1mg/m ³) exposure group, the most relevant level to pures.
11.2	Information on other hazards	5
	Endocrine disrupting proper	ties No data available.
	Other information	No data available.





Safety Data Sheet

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

SDS Number: CK8544Y-TA-UT-01-EN

Revision date:

Version: 01

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. The toner/developer/ink contains synthetic polymer microparticles. When disposing of this product/parts, avoid release of contents into the environment. Dispose of contents(toner/developer/ink) in accordance with local/regional/national/ international regulations.

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.

Effective date:

Replace version:





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

SDS Number: CK8544Y-TA-UT-01-EN

Revision date:

Version: 01

14.5 Environmental hazards

None.

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 (EU) No 2024/590 (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 (Authorisations):

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.

Issue date:	01/10/2024
Effective date:	01/10/2024

Replace version:

Triumph-Adler	
A KYOCERA GROUP COMPANY	
7 Data Sheet g to Regulation (EC) No 1907/2006 (REACH)	

)		
	Issue date:	01/10/2024
	Effective date:	01/10/2024

IF IT WORX, IT'S

Revision date: Version: 01

Replace version:

SECTION 16: Other information

SDS Number: CK8544Y-TA-UT-01-EN

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:

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

Abbreviations and acronyms

		-
А	CGIH	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
-	LP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
	PA	Environmental Protection Agency (Integrated Risk Information System) (US)
L/	ARC	International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks to Humans)
Ν	IAK	Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)
N	ITP	National Toxicology Program (Report on Carcinogens) (US)
C	OSHA	Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)
F	BT	Persistent, Bio accumulative and Toxic
F	'EL	Permissible Exposure Limits
F	Proposition 65	California, Safe Drinking Water and Toxic Enforcement Act of 1986
F	REÁCH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of
		Chemicals
S	тот	Specific target organ toxicity
S	SVHC	Substances of Very High Concern
Т	RGS 905	Technische Regeln für Gefahrstoffe (Deutschland)
Т	SCA	Toxic Substances Control Act (US)
	WA	Time Weighted Average
	JN	United Nations
-	PvB	very Persistent and very Bio accumulative
	VHMIS	
V		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, utilising 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 "CK8544Y-TA-UT-01-EN"; 01/10/2024 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.