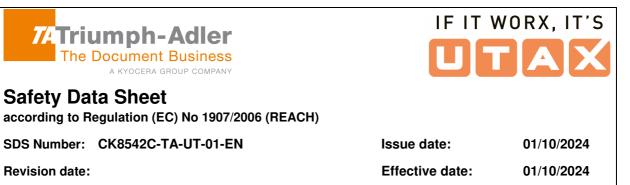


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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier			
	Product name	Cyan Toner for		
		4009ci		
	Consumable name	CK-8542C		
	Product form	Mixture		
1.2	Relevant identified uses of the substance or mixture and uses advised against			
	Identified uses	The image formation of our electrophotographic equipment. Other uses are not recommended.		
1.3	Details of the 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.

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	•	on (EC) No 1907/2006 (R	EACH)				
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SECTIC	N 3: Composi	ition/information on ing	gredients				
3.2	Mixtures						
	Chemical name	2	CAS No	Weight%	Classification (CLP)		
	Polyester resin		Confidential	70-80	None		
	Ferrite (Ferrite Organic pigmer	including manganese)	66402-68-4 Confidential	5-10 (as Mn: <3 3-8	3)None None		
	Amorphous sili		7631-86-9	1-5	None		
	Aluminium com	pound	1344-28-1	< 1	None		
	Information of	ingredients					
	(1) Substance,	which present a health of	or environmenta	I hazard within th	he meaning of CLP:		
		None.					
(2) Substance, which are assigned Community workpla			nmunity workpla	ce exposure lim	its:		
		None.					
	(3) Substance, REACH:	which are PBT or vPvB	in accordance w	vith the criteria s	et out in Annex XIII of		
		None.					
	(4) Substance, REACH (S)	which are included in th VHC):	e list established	d in accordance	with Article 59(1) of		
		None.					
	See section 16	for the full text of the H	statements decl	ared above.			
SECTIO	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 irritatir	ng.		
	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	ind delayed			
	Potential health	n effects and symptoms					
	Inhalation:	Prolonged inhalation of 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, CO<sub>2</sub> or dry chemical

Unsuitable extinguishing media

None specified.

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

Hazardous combustion products: Carbon dioxide, Carbon monoxide

#### 5.3 Advice for firefighters

Fire-fighting procedures

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

#### Protection equipment for firefighters

None specified.

#### SECTION 6: Accidental release measures

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

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

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

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

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

#### 6.4 Reference to other sections

See section 13 for disposal information.





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#### Safety Data Sheet

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#### 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/m<sup>3</sup> (Inhalable particles) 3 mg/m<sup>3</sup> (Respirable particles) Manganese inorganic compounds (Ferrite component):

0.1 mg/m<sup>3</sup> (Inhalable fraction)

0.02 mg/m<sup>3</sup> (Respirable fraction) (as Mn

Aluminium insoluble compound: 1 mg/m<sup>3</sup> (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.

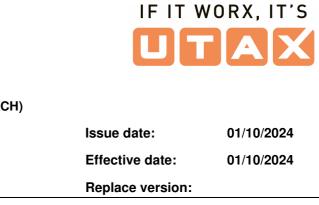
#### Personal protective equipment

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

#### **Environmental exposure controls**

No additional information available.





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#### SECTION 9: Physical and chemical properties

1	Information on basic physical and chemic	al 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.	
	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/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.





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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

11.1	Information on hazard classe	es as defined in Regulation (EC) No 1272/2008
	Based on available data, the cl	assification criteria listed below are not met.
	Acute toxicity	
	Oral (LD50)	> 2000 mg/kg (rat)* (Toner) > 2500 mg/kg (rat)** (Carrier)
	Dermal (LD50)	No data available (Toner). No data available (Carrier).
	Inhalation (LC50(4hr))	> 5.10 mg/l (rat)* (Toner)
	Skin corrosion/irritation	
	Acute skin irritation	Non-irritant (rabbit)* (Toner) Non-irritant (rabbit)** (Carrier)
	Serious eye damage/irritation	1
	Acute eye irritation	Mild irritant (rabbit)* (Toner)
	Respiratory or skin sensitisa	tion
	Skin sensitisation	Non-sensitising (mouse)* (Toner) Non-sensitising** (Carrier)
1		

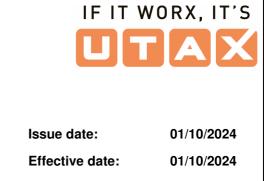


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Version: 01 **Replace version:** 11.1 Germ cell mutagenicity AMES test is negative (Toner). AMES test is negative\*\* (Carrier). \*(Based on test result of similar product) \*\*(Based on test result of constituent materials) Information of ingredients: No mutagen according to MAK, TRGS905 and (EC) No 1272/2008 Annex VI. Carcinogenicity Information of ingredients: 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/m<sup>3</sup>) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m<sup>3</sup>) exposure group (1). But no pulmonary change was reported in the lowest (1mg/m<sup>3</sup>) exposure group, the most relevant level to potential human exposures. 11.2 Information on other hazards No data available. Endocrine disrupting properties 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. 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.

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# 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.

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#### SECTION 16: Other information

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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 "CK8542C-TA-UT-01-EN"; 01/10/2024 of the (4) 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	identifier	
	Product name	Black Toner for	
		4009ci	
	Consumable name	CK-8542K	
	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	lier 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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	ty Data Sh	<b>eet</b> on (EC) No 1907/2006 (R	EACH)		
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	-		greatents		
3.2	Mixtures			M/+ ++ ++ 10/	
	Chemical name	_	<u>CAS No</u>	<u>Weight%</u>	Classification (CLP)
	Polyester resin Ferrite (Ferrite	including manganese)	Confidential 66402-68-4	70-80 5-10(as Mn:< 3	None 3)None
	Carbon black		1333-86-4	3-8	None
	Amorphous sili		7631-86-9 1344-28-1	1-5 < 1	None None
	Aluminium com		1344-20-1	< 1	None
	Information of	which present a health	or onvironmonto	hazard within t	the meaning of CLP:
	(1) Substance,	None.			the meaning of OLF.
	(2) Substance		nmunity worknir	aco ovnosuro lin	aite :
(2) Substance, which are assigned Community workplace end None.				11.5.	
		act out in Annox VIII of			
(3) Substance, which are PBT or vPvB in accordance with the criteria set out in Ar REACH:					
	None.				
	(4) Substance, which are included in the list established in accordance with Article 59(1) of REACH (SVHC):		with Article 59(1) of		
		None.			
	See section 16	for the full text of the H	statements dec	lared above.	
SECTIO	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 w	ater.		
	Eye contact:	Flush with water immed	diately and see	a doctor if irritati	ing.
	Ingestion:	Rinse out the mouth. D Seek medical treatmen		glasses of wate	r to dilute.
4.2	Most importar	nt symptoms and effec	ts, both acute a	and delayed	
	Potential health	n effects and symptoms			
	Inhalation:				ng damage. Use of this ation of excessive toner





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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, CO<sub>2</sub> or dry chemical

Unsuitable extinguishing media

None specified.

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

Hazardous combustion products: Carbon dioxide, Carbon monoxide

#### 5.3 Advice for firefighters

Fire-fighting procedures

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

#### Protection equipment for firefighters

None specified.

#### **SECTION 6: Accidental release measures**

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

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

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

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

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

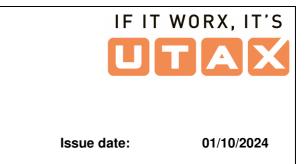
#### 6.4 Reference to other sections

See section 13 for disposal information.



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#### 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/m<sup>3</sup> (Inhalable particles) 3 mg/m<sup>3</sup> (Respirable particles) Carbon black: 3 mg/m<sup>3</sup> (Inhalable fraction) Manganese inorganic compounds (Ferrite component):

0.1 mg/m<sup>3</sup> (Inhalable fraction)

0.02 mg/m<sup>3</sup> (Respirable fraction) (as Mn)

Aluminium insoluble compound: 1 mg/m<sup>3</sup> (Respirable fraction)

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

Particles: 15 mg/m<sup>3</sup> (Total dust) 5 mg/m<sup>3</sup> (Respirable fraction) Carbon black: 3.5 mg/m<sup>3</sup> Manganese compounds (Ferrite component): 5 mg/m<sup>3</sup> (Ceiling) (as Mn) Amorphous silica: 80 mg/m<sup>3</sup>/%SiO<sub>2</sub>

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.

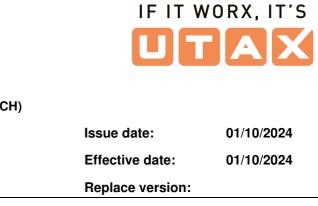
#### Personal protective equipment

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 che	emical 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 rang	e 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 <sup>3</sup> ]	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.





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#### 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

In	formation on hazard classe	es as defined in Regulation (EC) No 1272/2008	
Ba	Based on available data, the classification criteria listed below are not met.		
A	cute toxicity		
	Oral (LD50)	> 2000 mg/kg (rat)* (Toner) > 2500 mg/kg (rat)** (Carrier)	
	Dermal (LD50)	No data available (Toner). No data available (Carrier).	
	Inhalation (LC50(4hr))	> 5.09 mg/l (rat)* (Toner)	
S	kin corrosion/irritation		
	Acute skin irritation	Non-irritant (rabbit)* (Toner) Non-irritant (rabbit)** (Carrier)	
S	erious eye damage/irritatio	1	
	Acute eye irritation	Mild irritant (rabbit)* (Toner)	
R	espiratory or skin sensitisa	tion	
	Skin sensitisation	Non-sensitising (mouse)* (Toner) Non-sensitising** (Carrier)	





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

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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:		
No carcinogen or potential carcinogen (except carbon black) according to IARC, Jap Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Propos TRGS 905 and (EC) No 1272/2008 Annex VI.			
	carcinogenicity. (*2) The evaluation of carbon black is based upon the development of lung tumours in rat recein chronic inhalation exposures to free carbon black at level that induce particle overload of the transformation of transfo		
	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 (EC) No 1272/2008 Annex VI.		
	STOT-single exposure	No data available.	
	STOT-repeated exposure	No data available.	
	Aspiration hazard	No data available.	
	Chronic effects		
	In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16 mg/m <sup>3</sup> ) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m <sup>3</sup> ) exposure group (1). But no pulmonary change was reported in the lowest (1mg/m <sup>3</sup> ) exposure group, the most relevant level to potential human exposures.		
11.2	Information on other hazards		
	Endocrine disrupting propert	ies 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.

#### Results of PBT and vPvB assessment 12.5

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

#### **UN-number or ID number** 14.1

None.

#### 14.2 **UN Proper shipping name**

None.

#### 14.3 Transport hazard class(es)

None.

Effective date:

**Replace version:** 





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#### 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 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.

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006 (REACH)		
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	Benlace version:	

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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:** 

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 "CK8542K-TA-UT-01-EN"; 01/10/2024 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	Magenta Toner for
		4009ci
	Consumable name	CK-8542M
	Product form	Mixture
1.2	Relevant identified u	ses of the substance or mixture and uses advised against
	Identified uses	The image formation of our electrophotographic equipment. Other uses are not recommended.
1.3	Details of the supplie	er of the safety data sheet
	Manufacturer	KYOCERA Document Solutions Inc.
	Address	1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan
	Supplier	TA Triumph-Adler GmbH
	Address	Deelbögenkamp 4c 22297 Hamburg Germany
1.4	Emergency telephon	e number +49 (0) 40 / 528490 (This number is available only during office hours)

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

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

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		ERA GROUP COMPANY			
	ty Data Sho ing to Regulatio	<b>eet</b> n (EC) No 1907/2006 (RI	EACH)		
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SECTIC	N 3: Composi	tion/information on ing	gredients		
3.2	Mixtures				
	Chemical name	2	CAS No	Weight%	Classification (CLP)
	Polyester resin	including manganese) nt ca	Confidential 66402-68-4 Confidential 7631-86-9 1344-28-1	70-80 5-10 (as Mn: < 3-8 1-5 < 1	None
	Information of	ingredients			
	(1) Substance,	which present a health of	or environmental	l hazard within th	ne meaning of CLP:
		None.			
	(2) Substance,	which are assigned Cor	nmunity workpla	ce exposure lim	its:
		None.			
	(3) Substance, REACH:	which are PBT or vPvB	in accordance w	vith the criteria se	et out in Annex XIII of
		None.			
	(4) Substance, REACH (S)	which are included in th /HC):	e list established	d in accordance	with Article 59(1) of
		None.			
	See section 16	for the full text of the H	statements decla	ared above.	
SECTIO	ON 4: First aid	measures			
4.1	Description of	first aid measures			
	Inhalation:	Remove from exposure Consult a doctor in cas			
	Skin contact:	Wash with soap and wa	ater.		
	Eye contact:	Flush with water immed	diately and see a	a doctor if irritatir	ng.
	Ingestion:	Rinse out the mouth. D Seek medical treatmen		glasses of water	to dilute.
4.2	Most importan	it symptoms and effect	ts, both acute a	ind delayed	
	Potential health	effects and symptoms			
	Inhalation:	Prolonged inhalation of 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, CO<sub>2</sub> or dry chemical

Unsuitable extinguishing media

None specified.

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

Hazardous combustion products: Carbon dioxide, Carbon monoxide

#### 5.3 Advice for firefighters

Fire-fighting procedures

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

#### Protection equipment for firefighters

None specified.

#### **SECTION 6: Accidental release measures**

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

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

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

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

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

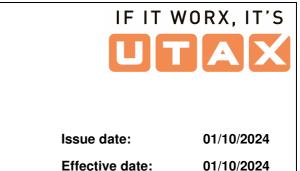
#### 6.4 Reference to other sections

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/m<sup>3</sup> (Inhalable particles) 3 mg/m<sup>3</sup> (Respirable particles) Manganese inorganic compounds (Ferrite component):

0.1 mg/m<sup>3</sup> (Inhalable fraction)

0.02 mg/m<sup>3</sup> (Respirable fraction) (as Mn

Aluminium insoluble compound: 1 mg/m<sup>3</sup> (Respirable fraction)

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

Particles: 15 mg/m<sup>3</sup> (Total dust) 5 mg/m<sup>3</sup> (Respirable fraction) Manganese compounds (Ferrite component): 5 mg/m<sup>3</sup> (Ceiling) (as Mn) Amorphous silica: 80 mg/m<sup>3</sup>/%SiO<sub>2</sub>

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.

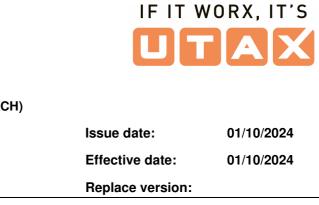
#### Personal protective equipment

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	al 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.	
	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 <sup>3</sup> ]	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.





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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

11.1	Information on hazard classe	es 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) > 2500 mg/kg (rat)** (Carrier)		
	Dermal (LD50)	No data available (Toner). No data available (Carrier).		
	Inhalation (LC50(4hr))	> 5.08 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)		
1				





according to Regulation (EC) No 1907/2006 (REACH
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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:	
		to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.
	Carcinogenicity	
	Information of ingredients:	
		ntial carcinogen according to IARC, Japan Association on H, EPA, OSHA, NTP, MAK, California Proposition 65, p 1272/2008 Annex VI.
	Reproductive toxicity	
	Information of ingredients:	
	No reproductive toxicat (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 <sup>3</sup> ) 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% Idle (4mg/m <sup>3</sup> ) exposure group (1). But no pulmonary change rest (1mg/m <sup>3</sup> ) exposure group, the most relevant level to ures.
11.2	Information on other hazards	
	Endocrine disrupting proper	ies 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. 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.

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# 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.

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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:

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

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

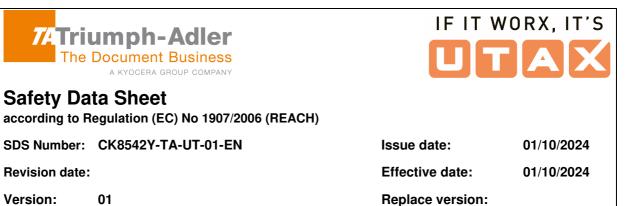
(4) The contents are in accordance with Material Safety Data Sheet "CK8542M-TA-UT-01-EN"; 01/10/2024 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.



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

1.1	Product identifier	
	Product name	Yellow Toner for
		4009ci
	Consumable name	CK-8542Y
	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.
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.

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	Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)					
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SECTIO	N 3. Composi	tion/information on ing	aredients			
	-		greatents			
3.2	Mixtures			M/aiabt0/	Classification (CLD)	
	Chemical name	2	<u>CAS No</u>	<u>Weight%</u>	Classification (CLP)	
	Polyester resin Ferrite (Ferrite	including manganese)	Confidential 66402-68-4	70-80 5-10 (as Mn: <	None 3)None	
	Organic pigmer	nt	Confidential	3-8	None	
	Amorphous silie Aluminium com		7631-86-9 1344-28-1	1-5 < 1	None None	
	Information of					
		which present a health of	or environmenta	l hazard within tl	he 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 w	vith the criteria s	et out in Annex XIII of	
		None.				
	(4) Substance, REACH (SV	which are included in th /HC):	e list established	d in accordance	with Article 59(1) of	
		None.				
	See section 16	for the full text of the H	statements decl	ared above.		
SECTIC	ON 4: First aid	measures				
4.1	Description of	first aid measures				
	Inhalation:	Remove from exposure Consult a doctor in cas				
	Skin contact:	Wash with soap and wa	ater.			
	Eye contact:	Flush with water immed	diately and see a	a doctor if irritatir	ng.	
	Ingestion:	Rinse out the mouth. D Seek medical treatmen		glasses of water	to dilute.	
4.2	Most importar	it symptoms and effect	ts, both acute a	ind delayed		
	Potential health	effects and symptoms				
	Inhalation:	Prolonged inhalation of 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, CO<sub>2</sub> or dry chemical

Unsuitable extinguishing media

None specified.

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

Hazardous combustion products: Carbon dioxide, Carbon monoxide

#### 5.3 Advice for firefighters

Fire-fighting procedures

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

#### Protection equipment for firefighters

None specified.

#### **SECTION 6: Accidental release measures**

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

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

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

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

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

#### 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/m<sup>3</sup> (Inhalable particles) 3 mg/m<sup>3</sup> (Respirable particles) Manganese inorganic compounds (Ferrite component):

0.1 mg/m<sup>3</sup> (Inhalable fraction)

0.02 mg/m<sup>3</sup> (Respirable fraction) (as Mn

Aluminium insoluble compound: 1 mg/m<sup>3</sup> (Respirable fraction)

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

Particles: 15 mg/m<sup>3</sup> (Total dust) 5 mg/m<sup>3</sup> (Respirable fraction) Manganese compounds (Ferrite component): 5 mg/m<sup>3</sup> (Ceiling) (as Mn) Amorphous silica: 80 mg/m<sup>3</sup>/%SiO<sub>2</sub>

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.

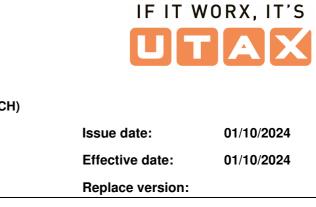
#### Personal protective equipment

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

Inf	ormation on basic physical and chemic	cal properties	
Арр	Appearance		
	Physical state	Solid (fine powder)	
	Colour	Yellow	
	Odour	Odourless	
Mel	ting point/freezing point [°C]	100-120 (Toner)	
Boil	ing point or initial boiling point and boiling range	No data available.	
Flar	nmability	No data available.	
Low	ver and upper explosion limit	No data available.	
Flas	sh point	No data available.	
Aut	o-ignition temperature	No data available.	
Dec	composition temperature	No data available.	
pН		No data available.	
Kine	ematic viscosity	No data available.	
Solu	Jbility	Almost insoluble in water.	
Par	tition coefficient: n-octanol/water (log value)	No data available.	
Vap	oour pressure	No data available.	
Der	nsity and/or relative density [g/cm3]	1.2-1.4 (Toner)	
Rela	ative vapour density	Not applicable.	
Par	ticle 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.





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SECTION 10: Stability and reactivity

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# 10.1 Reactivity

No data available.

### 10.2 Chemical stability

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

# 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur.

10.4 Conditions to avoid

None specified.

### 10.5 Incompatible materials

None specified.

#### 10.6 Hazardous decomposition products

Hazardous decomposition products are not to be produced.

#### SECTION 11: Toxicological information

11.1	Information on hazard classe	es as defined in Regulation (EC) No 1272/2008
	Based on available data, the cl	assification criteria listed below are not met.
	Acute toxicity	
	Oral (LD50)	> 2000 mg/kg (rat)* (Toner) > 2500 mg/kg (rat)** (Carrier)
	Dermal (LD50)	No data available (Toner). No data available (Carrier).
	Inhalation (LC50(4hr))	> 5.10 mg/l (rat)* (Toner)
	Skin corrosion/irritation	
	Acute skin irritation	Non-irritant (rabbit)* (Toner) Non-irritant (rabbit)** (Carrier)
	Serious eye damage/irritation	1
	Acute eye irritation	Mild irritant (rabbit)* (Toner)
	Respiratory or skin sensitisa	tion
	Skin sensitisation	Non-sensitising (mouse)* (Toner) Non-sensitising** (Carrier)
1		

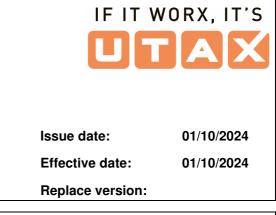


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11.1	Germ cell mutagenicity	AMES test is negative (Toner). AMES test is negative** (Carrier). *(Based on test result of similar product) **(Based on test result of constituent materials)
	Information of ingredients:	()
	No mutagen according	g to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.
	Carcinogenicity	
	Information of ingredients:	
	Industrial Health, ACC	ential carcinogen according to IARC, Japan Association on AIH, EPA, OSHA, NTP, MAK, California Proposition 65, No 1272/2008 Annex VI.
	Reproductive toxicity	
	Information of ingredients:	
	No reproductive toxica (EC) No 1272/2008 A	ant according to MAK, California Proposition 65, TRGS 905 and nnex 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 <sup>3</sup> ) exposure ( of the animal in the mi	nronic inhalation exposure to a typical toner, a mild to moderate s was observed in 92% of the rats in the high concentration group, and a minimal to mild degree of fibrosis was noted in 22% ddle (4mg/m <sup>3</sup> ) exposure group (1). But no pulmonary change west (1mg/m <sup>3</sup> ) exposure group, the most relevant level to sures.
11.2	Information on other hazard	S
	Endocrine disrupting proper	rties 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. 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.

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# 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.

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#### SECTION 16: Other information

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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 "CK8542Y-TA-UT-01-EN"; 01/10/2024 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.