

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

SDS Number: CK8531C-TA-UT-02-EN

Revision date: 15/10/2020

Version: 02

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

4.4	Broduct identifier		
1.1	Product identifier		
	Product name	Cyan Toner for	
		3508ci	
	Consumable name	CK-8531C	
	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		
	Manufacturer	KYOCERA Document Solutions Inc.	
	Address	1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan	
	Supplier	TA Triumph-Adler GmbH	
	Adress	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.
2.2 I	Not classified as hazardous mixture.
2.2 I	
	Label elements
I	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.

	h-Adler Tent Business Cera group company			ORX, IT'S	
•	Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)				
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Version: 02			Replace version:	01	
SECTION 3: Compos	ition/information on in	aredients			
- -		greatents			
3.2 Mixtures	_		[M/a; abt 0/1]		
Chemical name	_	<u>CAS-No</u> Confidential	[<u>Weight %]</u> 70-80		
Polyester resin Ferrite (Ferrite	including Manganese)		70-80 3-8 (as Mn: <1)		
Organic pigme		Confidential	3-8		
Amorphous Sil Aluminium con		7631-86-9 1344-28-1	1-5 < 1		
Information of (1) Substance,	f ingredients which present a health	or environmenta	I hazard within the me	aning of CLP:	
	None.				
(2) Substance,	which are assigned Cor	mmunity workpla	ace exposure limits:		
None.					
(3) Substance, which are PBT or vPvB in accordance REACH:		vith the criteria set out	in Annex XIII of		
	None.				
(4) Substance, REACH (S	which are included in th VHC):	e list establishe	d in accordance with A	rticle 59(1) of	
	None.				
See section 16	for the full text of the H	statements decl	ared above.		
SECTION 4: First aid	measures				
4.1 Description of	f first aid measures				
Inhalation:	Remove from exposure Consult a doctor in cas			water.	
Skin contact:	Wash with soap and w	ater.			
Eye contact:	Flush with water imme	diately and see a	a doctor if irritating.		
Ingestion:	Rinse out the mouth. D treatment if necessary.		glasses of water to dilu	ute. Seek medical	





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

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam, powder, CO₂ or dry chemical

Unsuitable extinguishing media

None specified.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide, Carbon monoxide

5.3 Advice for firefighters

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.

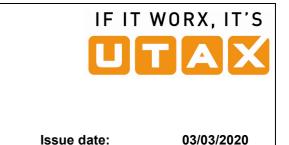
6.2 Environmental precautions

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.





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6.4 Reference to other sections

See section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not attempt to force open or destroy the toner container or unit. See installation guide of this product.

7.2 Conditions for safe storage, including any incompatibilities

Keep the toner container or unit tightly closed and store in a cool, dry and dark place. Keep away from fire. Keep out of the reach of children.

7.3 Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

(Reference data)

US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m³ (Inhalable particles) 3 mg/m³ (Respirable particles) Manganese inorganic compounds (Ferrite component): 0.1 mg/m³ (Inhalable fraction) 0.02 mg/m³ (Respirable fraction) (as Mn) Aluminium insoluble compounds: 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.

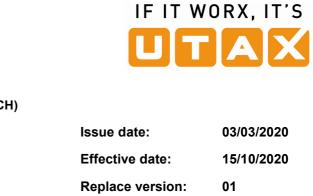
Personal protective equipment

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

Environmental exposure controls

No additional information available.





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SECTION 9: Physical and chemical properties

Information on basic physical and cher	nical properties
Appearance	
Physical state	Solid (fine powder)
Colour	Cyan
Odour	Odourless
Odour threshold	No data available.
рН	No data available.
Melting point [°C]	100-120 (Toner)
Boiling point	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper flammability or explosive limit	No data available.
Lower flammability or explosive limit	No data available.
Vapour pressure	No data available.
Vapour density	No data available.
Relative density [g/m ³]	1.2-1.4 (Toner)
Solubility (ies)	Almost insoluble in water.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

9.2 Other information

Dust explosion properties

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





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SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur.

10.4 Conditions to avoid

None specified.

10.5 Incompatible materials

None specified.

10.6 Hazardous decomposition products

Hazardous decomposition products are not to be produced.

SECTION 11: Toxicological information

11.1	Information on toxicological	effects
	Based on available data, the classification criteria listed below are not met.	
	Acute toxicity	
	Oral (LD ₅₀)	>2000 mg/kg (rat)* (Toner) >2000 mg/kg (rat)** (Carrier)
	Dermal (LD ₅₀)	No data available. (Toner) No data available. (Carrier)
	Inhalation $(LC_{50}(4hr))$	>5.10 mg/l (rat)* (Toner)
	Skin corrosion/irritation	
	Acute skin irritation	Non-irritant (rabbit)* (Toner) Non-irritant (rabbit)** (Carrier)
	Serious eye damage/irritatio	n
	Acute eye irritation	Mild irritant (rabbit)*. (Toner)
	Respiratory or skin sensitiza	ation
	Skin sensitization	Non-sensitising (mouse)* (Toner) Non-sensitising** (Carrier)





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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 und (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 toxica (EC) No 1272/2008 Ar	ant according to MAK, California Proposition 65, TRGS 905 und nnex VI.		
	STOT-single exposure	No data available.		
	STOT-repeated exposure	No data available.		
	Aspiration hazard	No data available.		
	Chronic effects			

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16 mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m³) exposure group (1). However, no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

Other information

No data available.



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SECTION 12: Ecological information

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12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

- 12.3 **Bio accumulative potential** No data available.
- 12.4 Mobility in soil

No data available.

Results of PBT and vPvB assessment 12.5

No data available.

12.6 Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport information

14.1 **UN-number**

None.

14.2 **UN Proper shipping name**

None.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.

14.5 **Environmental hazards**

None.





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14.6 Special precautions for user

No additional information available.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

EU-regulations

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

Regulation (EU) No 2019/1021 (on persistent organic pollutants, Annex I as amended):

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

TA Triumph-Adler The Document Business A KYOCERA GROUP COMPANY			DRX, IT'S	
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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) 2015/830 with respect to SDSs.

Revision information: Format change

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
CAS	Exposure Indices) Chemical Abstracts Service
CLP	
DFG	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures Deutsche Forschungsgemeinschaft
EPA	Environmental Protection Agency (Integrated Risk Information System) (US)
IARC	International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks to Humans)
MAK	Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)
NTP	National Toxicology Program (Report on Carcinogens) (US)
OSHA	Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)
PBT	Persistent, Bio accumulative and Toxic
PEL	Permissible Exposure Limits
Proposition 65	California, Safe Drinking Water and Toxic Enforcement Act of 1986
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of
	Chemicals
STOT	Specific target organ toxicity
SVHC	Substances of Very High Concern
TRGS 905	Technische Regeln für Gefahrstoffe (Deutschland)
TSCA	Toxic Substances Control Act (US)
TWA	Time Weighted Average
UN	United Nations
vPvB	very Persistent and very Bio accumulative
WHMIS	Workplace Hazardous Materials Information System (Canada)

Key literature references and sources for data

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

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

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

(4) The contents are in accordance with Material Safety Data Sheet "CK8531C-TA-UT-02-EN"; 15/10/2020 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.





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

1.1	Product identifier		
	Product name	Black Toner for	
	3508ci		
	Consumable name	CK-8531K	
	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	ier of the safety data sheet KYOCERA Document Solutions Inc.	
	Manufacturer		
	Address	1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan	
	Supplier	TA Triumph-Adler GmbH	
	Adress	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	

Triumph-Adler				ORX, IT'S		
	Triumph-Adler The Document Business A KYOCERA GROUP COMPANY					
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SECTION 3: C	Composition/information on ir	naredients				
3.2 Mixtur	-	.g				
	cal name	CAS-No	[Weight %]			
Polyes Ferrite Carboi Amorp	ter resin (3 kinds) (Ferrite including Manganese) n Black hous Silica nium compound	Confidential	80-90 3-8 (as Mn: <1) 3-8 1-5 < 1			
	nation of ingredients ostance, which present a health	or environmenta	I hazard within the mea	ning of CLP:		
	None.					
(2) Sul	(2) Substance, which are assigned Community workplace exposure limits:					
	None.					
. ,	(3) Substance, which are PBT or vPvB in accordance with the criteria set out in Annex XIII of REACH:					
	None.					
	ostance, which are included in t ACH (SVHC):	he list establishe	d in accordance with Art	ticle 59(1) of		
	None.					
See se	ection 16 for the full text of the H	statements decl	ared above.			
SECTION 4: F	irst aid measures					
4.1 Descri	iption of first aid measures					
Inhala	tion: Remove from exposur Consult a doctor in ca		d gargle with plenty of w coms as coughing.	ater.		
Skin c	ontact: Wash with soap and w	vater.				
Eye co	ontact: Flush with water imme	ediately and see a	a doctor if irritating.			
Ingest	ion: Rinse out the mouth. I treatment if necessary		glasses of water to dilut	e. Seek medical		





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

Ingestion: Use of this product as intended does not result in ingestion.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam, powder, CO₂ or dry chemical

Unsuitable extinguishing media

None specified.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide, Carbon monoxide

5.3 Advice for firefighters

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.

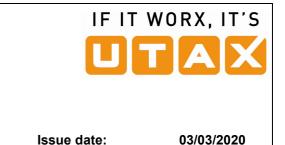
6.2 Environmental precautions

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.





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6.4 Reference to other sections

See section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not attempt to force open or destroy the toner container or unit. See installation guide of this product.

7.2 Conditions for safe storage, including any incompatibilities

Keep the toner container or unit tightly closed and store in a cool, dry and dark place. Keep away from fire. Keep out of the reach of children.

7.3 Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

(Reference data)

US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m³ (Inhalable particles) 3 mg/m³ (Respirable particles) Manganese inorganic compounds (Ferrite component): 0.1 mg/m³ (Inhalable fraction) 0.02 mg/m³ (Respirable fraction) (as Mn) Carbon Black: 3 mg/m³ (Inhalable fraction)

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

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction) Manganese compounds (Ferrite component): 5 mg/m³ (Ceiling) (as Mn) Carbon Black: 3.5 mg/m³ 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

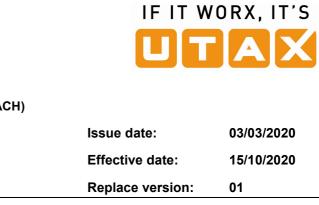
Appropriate engineering controls

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.





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8.2 Environmental exposure controls

No additional information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	Solid (fine powder)
Colour	Black
Odour	Odourless
Odour threshold	No data available.
рН	No data available.
Melting point [°C]	100-120 (Toner)
Boiling point	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper flammability or explosive limit	No data available.
Lower flammability or explosive limit	No data available.
Vapour pressure	No data available.
Vapour density	No data available.
Relative density [g/m ³]	1.2-1.4 (Toner)
Solubility (ies)	Almost insoluble in water.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

9.2 Other information

Dust explosion properties

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





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SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur.

10.4 Conditions to avoid

None specified.

10.5 Incompatible materials

None specified.

10.6 Hazardous decomposition products

Hazardous decomposition products are not to be produced.

SECTION 11: Toxicological information

Information on toxicological effects		
Based on available data, the classification criteria listed below are not met.		
Acute toxicity		
Oral (LD ₅₀)	>2000 mg/kg (rat)* (Toner) >2000 mg/kg (rat)** (Carrier)	
Dermal (LD ₅₀)	No data available. (Toner) No data available. (Carrier)	
Inhalation $(LC_{50}(4hr))$	>5.09 mg/l (rat)* (Toner)	
Skin corrosion/irritation		
Acute skin irritation	Non-irritant (rabbit)* (Toner) Non-irritant (rabbit)** (Carrier)	
Serious eye damage/irritation		
Acute eye irritation	Mild irritant (rabbit)*. (Toner)	
Respiratory or skin sensitization		
Skin sensitization Non-sensitising (mouse)* (Toner) Non-sensitising** (Carrier)		
	Acute toxicity Oral (LD ₅₀) Dermal (LD ₅₀) Inhalation (LC ₅₀ (4hr)) Skin corrosion/irritation Acute skin irritation Serious eye damage/irritation Acute eye irritation Respiratory or skin sensitiza	





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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 und (EC) No 1272/2008 Annex VI.			
	Carcinogenicity				
	Information of ingredients:	Information of ingredients:			
	No carcinogen or potential carcinogen (except Carbon Black) according to IARC, Ja Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Propos TRGS 905 and (EC) No 1272/2008 Annex VI.				
The IARC re-evaluated Carbon Black as a Group 2B carcinogen (possibly carcinog humans) as the result of inhalation exposure test in rats. But, oral/skin test does no carcinogenicity (2). The evaluation of Carbon Black is based upon the developmen tumours in rat receiving chronic inhalation exposures to free Carbon Black at level particle overload of the lung. The studies performed in animal models other than ra demonstrated an association between Carbon Black and lung tumours. Moreover, cancer bioassay using a typical toner preparation containing Carbon Black demons association between toner exposure and tumour development in rats (1).					
	Reproductive toxicity				
	Information of ingredients:				
No reproductive toxicant accordir (EC) No 1272/2008 Annex VI.		nt according to MAK, California Proposition 65, TRGS 905 und nex VI.			
	STOT-single exposure	No data available.			
	STOT-repeated exposure	No data available.			
	Aspiration hazard	No data available.			

Chronic effects

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16 mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m³) exposure group (1). However, no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

Other information

No data available.



The Document Business			
Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)			
SDS Number: CK8531K-TA-UT-02-EN	Issue date:	03/03/2020	
Revision date: 15/10/2020	Effective date:	15/10/2020	

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Version:

SECTION 12: Ecological information

02

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

- 12.3 **Bio accumulative potential** No data available.
- 12.4 Mobility in soil

No data available.

Results of PBT and vPvB assessment 12.5

No data available.

12.6 Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport information

14.1 **UN-number**

None.

14.2 **UN Proper shipping name**

None.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.

14.5 **Environmental hazards**

None.





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

SDS Number:	CK8531K-TA-UT-02-EN	Issue date:	03/03/2020
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14.6 Special precautions for user

No additional information available.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

EU-regulations

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

Regulation (EU) No 2019/1021 (on persistent organic pollutants, Annex I as amended):

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

	LIMPH-Adler Document Business A KYOCERA GROUP COMPANY		DRX, IT'S		
Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)					
SDS Number:	CK8531K-TA-UT-02-EN	Issue date:	03/03/2020		
Revision date:	15/10/2020	Effective date:	15/10/2020		
Version:	02	Replace version:	01		

SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, Annex II as amended by Regulation (EU) 2015/830 with respect to SDSs.

Revision information: Format change

Full text of H statements under sections 3: Not applicable

Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists 2016 TLVs and BEIs (Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices)
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DFG	Deutsche Forschungsgemeinschaft
EPA	Environmental Protection Agency (Integrated Risk Information System) (US)
IARC	International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks to Humans)
MAK	Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)
NTP	National Toxicology Program (Report on Carcinogens) (US)
OSHA	Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)
PBT	Persistent, Bio accumulative and Toxic
PEL	Permissible Exposure Limits
Proposition 65	California, Safe Drinking Water and Toxic Enforcement Act of 1986
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals
STOT	Specific target organ toxicity
SVHC	Substances of Very High Concern
TRGS 905	Technische Regeln für Gefahrstoffe (Deutschland)
TSCA	Toxic Substances Control Act (US)
TWA	Time Weighted Average
UN	United Nations
vPvB	very Persistent and very Bio accumulative
WHMIS	Workplace Hazardous Materials Information System (Canada)

Key literature references and sources for data

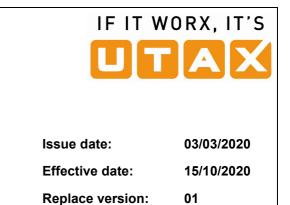
(1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, H. Muhle et al., Fundamental and Applied Toxicology 17.280-299 (1991) Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology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

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

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

(4) The contents are in accordance with Material Safety Data Sheet "CK8531K-TA-UT-02-EN"; 15/10/2020 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.





Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)

SDS Number: CK8531M-TA-UT-02-EN

Revision date: 15/10/2020

Version: 02

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

1.1	Product identifier				
	Product name	Magenta Toner for			
		3508ci			
	Consumable name	CK-8531M			
	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	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			
	Adress	Deelbögenkamp 4c 22297 Hamburg Germany			
1.4	Emergency telephor	e number +49 (0) 40 / 528490			
		(This number is available only during office hours)			

SECTION 2: Hazards identification

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

7.		h-Adler hent Business			ORX, IT'S
	Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)				
SDS N	umber: CK853	1M-TA-UT-02-EN		Issue date:	03/03/2020
Revisi	on date: 15/10/2	2020		Effective date:	15/10/2020
Versio	on: 02			Replace version:	01
SECTIO	ON 3. Composi	ition/information on in	aradiants		
	-		greatents		
3.2	Mixtures	_		[Maight 9/]	
	Chemical name Polyester resin Ferrite (Ferrite Organic pigme Amorphous Sili Aluminium com	- (3 kinds) including Manganese) nt ica	<u>CAS-No</u> Confidential 66402-68-4 Confidential 7631-86-9 1344-28-1	[<u>Weight %]</u> 70-80 3-8 (as Mn: <1) 3-8 1-5 < 1	
	Information of (1) Substance,	f ingredients which present a health	or environmenta	I hazard within the mea	aning of CLP:
		None.			
	(2) Substance,	which are assigned Cor	nmunity workpla	ace exposure limits:	
		None.			
	(3) Substance, REACH:	which are PBT or vPvB	in accordance v	vith the criteria set out	in Annex XIII of
		None.			
	(4) Substance, REACH (S'	which are included in th VHC):	e list establishe	d in accordance with A	rticle 59(1) of
		None.			
	See section 16	for the full text of the H	statements decl	ared above.	
SECTIO	ON 4: First aid	measures			
4.1	Description of	first aid measures			
	Inhalation:	Remove from exposure Consult a doctor in cas			water.
	Skin contact:	Wash with soap and w	ater.		
	Eye contact:	Flush with water imme	diately and see a	a doctor if irritating.	
	Ingestion:	Rinse out the mouth. D treatment if necessary.		glasses of water to dilu	ite. Seek medical





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

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

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam, powder, 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.

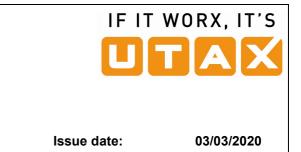
6.2 Environmental precautions

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.





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

Revision date: 15/10/2020

Safety Data Sheet

Version:

6.4 Reference to other sections

02

See section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not attempt to force open or destroy the toner container or unit. See installation guide of this product.

7.2 Conditions for safe storage, including any incompatibilities

Keep the toner container or unit tightly closed and store in a cool, dry and dark place. Keep away from fire. Keep out of the reach of children.

7.3 Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

(Reference data)

US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m³ (Inhalable particles) 3 mg/m³ (Respirable particles) Manganese inorganic compounds (Ferrite component): 0.1 mg/m³ (Inhalable fraction) 0.02 mg/m³ (Respirable fraction) (as Mn) Aluminium insoluble compounds: 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.

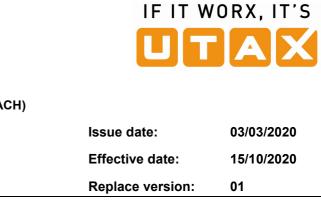
Personal protective equipment

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: CK8531M-TA-UT-02-EN

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SECTION 9: Physical and chemical properties

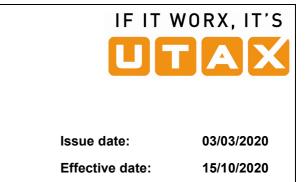
Information on basic physical and chen	nical properties
Appearance	
Physical state	Solid (fine powder)
Colour	Magenta
Odour	Odourless
Odour threshold	No data available.
рН	No data available.
Melting point [°C]	100-120 (Toner)
Boiling point	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper flammability or explosive limit	No data available.
Lower flammability or explosive limit	No data available.
Vapour pressure	No data available.
Vapour density	No data available.
Relative density [g/m ³]	1.2-1.4 (Toner)
Solubility (ies)	Almost insoluble in water.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

9.2 Other information

Dust explosion properties

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





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Version:

SECTION 10: Stability and reactivity

02

SDS Number: CK8531M-TA-UT-02-EN

10.1 Reactivity

No data available.

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

10.2 Chemical stability

Safety Data Sheet

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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

1.1	Information on toxicological	effects
	Based on available data, the c	classification criteria listed below are not met.
	Acute toxicity	
	Oral (LD_{50})	>2000 mg/kg (rat)* (Toner) >2000 mg/kg (rat)** (Carrier)
	Dermal (LD_{50})	No data available. (Toner) No data available. (Carrier)
	Inhalation $(LC_{50}(4hr))$	>5.08 mg/l (rat)* (Toner)
	Skin corrosion/irritation	
	Acute skin irritation	Non-irritant (rabbit)* (Toner) Non-irritant (rabbit)** (Carrier)
	Serious eye damage/irritatio	n
	Acute eye irritation	Mild irritant (rabbit)*. (Toner)
	Respiratory or skin sensitiza	ation
	Skin sensitization	Non-sensitising (mouse)* (Toner) Non-sensitising** (Carrier)



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

Safety Data Sheet



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Version:	02	Replace version:	01

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 und (EC) No 1272/2008 Annex VI.
	Carcinogenicity	
	Information of ingredients:	
		cinogen according to IARC, Japan Association on , OSHA, NTP, MAK, California Proposition 65, TRGS 905 and
	Reproductive toxicity	
	Information of ingredients:	
	No reproductive toxica (EC) No 1272/2008 An	nt according to MAK, California Proposition 65, TRGS 905 und nex VI.
	STOT-single exposure	No data available.
	STOT-repeated exposure	No data available.
	Aspiration hazard	No data available.
	Chronic effects	
	of lung fibrosis was observed in exposure group, and a minima middle (4mg/m ³) exposure grou	nalation exposure to a typical toner, a mild to moderate degree n 92% of the rats in the high concentration (16 mg/m^3) I to mild degree of fibrosis was noted in 22% of the animal in the up (1). However, no pulmonary change was reported in the up, the most relevant level to potential human exposures.
	Other information	No data available.



Revision date: 15/10/2020



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01

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SECTION 12: Ecological information

02

SDS Number: CK8531M-TA-UT-02-EN

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

- 12.3 **Bio accumulative potential** No data available.
- 12.4 Mobility in soil

No data available.

Results of PBT and vPvB assessment 12.5

No data available.

12.6 Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport information

14.1 **UN-number**

None.

14.2 **UN Proper shipping name**

None.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.

14.5 **Environmental hazards**

None.





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

SDS Number:	CK8531M-TA-UT-02-EN	Issue date:	03/03/2020
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14.6 Special precautions for user

No additional information available.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

EU-regulations

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

Regulation (EU) No 2019/1021 (on persistent organic pollutants, Annex I as amended):

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

	JIMPH-Adler Document Business A KYOCERA GROUP COMPANY		DRX, IT'S
Safety Da according to R	ta Sheet egulation (EC) No 1907/2006 (REACH)		
SDS Number:	CK8531M-TA-UT-02-EN	Issue date:	03/03/2020
Revision date:	15/10/2020	Effective date:	15/10/2020
Version:	02	Replace version:	01

SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, Annex II as amended by Regulation (EU) 2015/830 with respect to SDSs.

Revision information: Format change

Full text of H statements under sections 3: Not applicable

Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists 2016 TLVs and BEIs (Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices)
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DFG	Deutsche Forschungsgemeinschaft
EPA	Environmental Protection Agency (Integrated Risk Information System) (US)
IARC	International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks to Humans)
MAK	Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)
NTP	National Toxicology Program (Report on Carcinogens) (US)
OSHA	Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)
PBT	Persistent, Bio accumulative and Toxic
PEL	Permissible Exposure Limits
Proposition 65	California, Safe Drinking Water and Toxic Enforcement Act of 1986
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of
	Chemicals
STOT	Specific target organ toxicity
SVHC	Substances of Very High Concern
TRGS 905	Technische Regeln für Gefahrstoffe (Deutschland)
TSCA	Toxic Substances Control Act (US)
TWA	Time Weighted Average
UN	United Nations
vPvB	very Persistent and very Bio accumulative
WHMIS	Workplace Hazardous Materials Information System (Canada)

Key literature references and sources for data

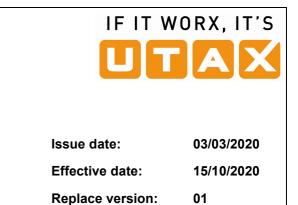
(1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, H. Muhle et al., Fundamental and Applied Toxicology 17.280-299 (1991) Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology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

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

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

(4) The contents are in accordance with Material Safety Data Sheet "CK8531M-TA-UT-02-EN"; 15/10/2020 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.





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

SDS Number: CK8531Y-TA-UT-02-EN

Revision date: 15/10/2020

Version: 02

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

1.1	Product identifier	
	Product name	Yellow Toner for
		3508ci
	Consumable name	CK-8531Y
	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
	Adress	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

2.2 La	Classification according to Regulation (EC) No 1272/2008 (CLP) Not classified as hazardous mixture. Label elements Labelling according to Regulation (EC) No 1272/2008 (CLP)
	_abel elements
La	abelling according to Regulation (EC) No 1272/2008 (CLP)
	Not applicable.
2.3 O	Other hazards
As	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.

	h-Adler Tent Business			ORX, IT'S	
•	Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)				
SDS Number: CK853	1Y-TA-UT-02-EN		Issue date:	03/03/2020	
Revision date: 15/10/2	2020		Effective date:	15/10/2020	
Version: 02			Replace version:	01	
SECTION 3: Compos	ition/information on ing	gredients			
3.2 Mixtures					
Chemical name	<u>e</u>	CAS-No	[Weight %]		
Polyester resin Ferrite (Ferrite Organic pigme Amorphous Sil Aluminium con	including Manganese) nt ica	Confidential 66402-68-4 Confidential 7631-86-9 1344-28-1	70-80 3-8 (as Mn: <1) 3-8 1-5 < 1		
Information of (1) Substance,	f ingredients which present a health	or environmenta	I hazard within the mea	aning of CLP:	
	None.				
(2) Substance,	(2) Substance, which are assigned Community workpla		ace exposure limits:		
	None.				
(3) Substance, REACH:	(3) Substance, which are PBT or vPvB in accordance REACH:		vith the criteria set out	in Annex XIII of	
	None.				
	(4) Substance, which are included in the list establishe REACH (SVHC):		d in accordance with A	rticle 59(1) of	
	None.				
See section 16	for the full text of the H	statements decl	ared above.		
SECTION 4: First aid	measures				
4.1 Description of	f first aid measures				
Inhalation:	Remove from exposure Consult a doctor in cas			vater.	
Skin contact:			0 0		
Eye contact:	Flush with water imme	diately and see a	a doctor if irritating.		
Ingestion:	Rinse out the mouth. D treatment if necessary.		glasses of water to dilu	te. Seek medical	





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

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.

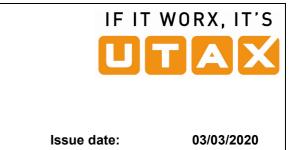
6.2 Environmental precautions

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.





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6.4 Reference to other sections

See section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not attempt to force open or destroy the toner container or unit. See installation guide of this product.

7.2 Conditions for safe storage, including any incompatibilities

Keep the toner container or unit tightly closed and store in a cool, dry and dark place. Keep away from fire. Keep out of the reach of children.

7.3 Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

(Reference data)

US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m³ (Inhalable particles) 3 mg/m³ (Respirable particles) Manganese inorganic compounds (Ferrite component): 0.1 mg/m³ (Inhalable fraction) 0.02 mg/m³ (Respirable fraction) (as Mn) Aluminium insoluble compounds: 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.

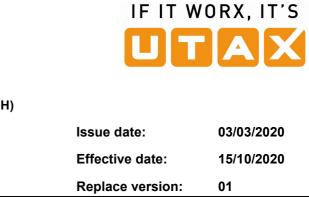
Personal protective equipment

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

Environmental exposure controls

No additional information available.





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SECTION 9: Physical and chemical properties

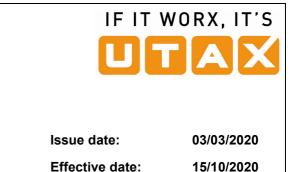
Information on basic physical and chen	nical properties
Appearance	
Physical state	Solid (fine powder)
Colour	Yellow
Odour	Odourless
Odour threshold	No data available.
рН	No data available.
Melting point [°C]	100-120 (Toner)
Boiling point	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper flammability or explosive limit	No data available.
Lower flammability or explosive limit	No data available.
Vapour pressure	No data available.
Vapour density	No data available.
Relative density [g/m ³]	1.2-1.4 (Toner)
Solubility (ies)	Almost insoluble in water.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

9.2 Other information

Dust explosion properties

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





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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

1.1	Information on toxicological	effects
	Based on available data, the c	lassification criteria listed below are not met.
	Acute toxicity	
	Oral (LD_{50})	>2000 mg/kg (rat)* (Toner) >2000 mg/kg (rat)** (Carrier)
	Dermal (LD ₅₀)	No data available. (Toner) No data available. (Carrier)
	Inhalation $(LC_{50}(4hr))$	>5.10 mg/l (rat)* (Toner)
	Skin corrosion/irritation	
	Acute skin irritation	Non-irritant (rabbit)* (Toner) Non-irritant (rabbit)** (Carrier)
	Serious eye damage/irritatio	n
	Acute eye irritation	Mild irritant (rabbit)*. (Toner)
	Respiratory or skin sensitiza	ation
	Skin sensitization	Non-sensitising (mouse)* (Toner) Non-sensitising* (Carrier)





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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 und (EC) No 1272/2008 Annex VI.
	Carcinogenicity	
	Information of ingredients:	
		inogen according to IARC, Japan Association on OSHA, NTP, MAK, California Proposition 65, TRGS 905 and
	Reproductive toxicity	
	Information of ingredients:	
	No reproductive toxical (EC) No 1272/2008 An	nt according to MAK, California Proposition 65, TRGS 905 und nex VI.
	STOT-single exposure	No data available.
	STOT-repeated exposure	No data available.
	Aspiration hazard	No data available.
	Chronic effects	
	of lung fibrosis was observed in exposure group, and a minimal middle (4mg/m ³) exposure grou	alation exposure to a typical toner, a mild to moderate degree n 92% of the rats in the high concentration (16 mg/m ³) to mild degree of fibrosis was noted in 22% of the animal in the up (1). However, no pulmonary change was reported in the up, the most relevant level to potential human exposures.

Other information

No data available.



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SECTION 12: Ecological information

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12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 **Bio accumulative potential** No data available.

12.4 Mobility in soil

No data available.

Results of PBT and vPvB assessment 12.5

No data available.

12.6 Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport information

14.1 **UN-number**

None.

14.2 **UN Proper shipping name**

None.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.

14.5 **Environmental hazards**

None.





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14.6 Special precautions for user

No additional information available.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

EU-regulations

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

Regulation (EU) No 2019/1021 (on persistent organic pollutants, Annex I as amended):

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

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SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, Annex II as amended by Regulation (EU) 2015/830 with respect to SDSs.

Revision information: Format change

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
CAS	Exposure Indices) Chemical Abstracts Service
CLP	
DFG	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures Deutsche Forschungsgemeinschaft
EPA	Environmental Protection Agency (Integrated Risk Information System) (US)
IARC	International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks to Humans)
MAK	Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)
NTP	National Toxicology Program (Report on Carcinogens) (US)
OSHA	Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)
PBT	Persistent, Bio accumulative and Toxic
PEL	Permissible Exposure Limits
Proposition 65	California, Safe Drinking Water and Toxic Enforcement Act of 1986
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of
	Chemicals
STOT	Specific target organ toxicity
SVHC	Substances of Very High Concern
TRGS 905	Technische Regeln für Gefahrstoffe (Deutschland)
TSCA	Toxic Substances Control Act (US)
TWA	Time Weighted Average
UN	United Nations
vPvB	very Persistent and very Bio accumulative
WHMIS	Workplace Hazardous Materials Information System (Canada)

Key literature references and sources for data

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

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

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

(4) The contents are in accordance with Material Safety Data Sheet "CK8531Y-TA-UT-02-EN"; 15/10/2020 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.