



01

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

SDS Number: CK8532C-TA-UT-01-EN

Revision date:

Version:

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

1.1	Product identifier		
	Product name	Cyan Toner for	
		4008ci	
	Consumable name	CK-8532C	
	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 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 ent Business era group company			ORX, IT'S
	ty Data Sh	eet n (EC) No 1907/2006 (R	EACH)		
SDS N	umber: CK853	2C-TA-UT-01-EN		Issue date:	09/06/2021
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				•	
SECTIO	ON 3: Composi	tion/information on ing	gredients		
3.2	Mixtures				
	Chemical name	2	CAS No	Weight% Clas	sification (CLP)
	Polyester resin Ferrite (Ferrite Organic pigme Amorphous sili Aluminium com	including manganese) nt ca	confidential 66402-68-4 confidential 7631-86-9 1344-28-1	70-80 5-10(as Mn: < 3) 3-8 1-5 < 1	
	Information of				
	(1) Substance,	which present a health	or environmenta	I hazard within the me	aning of CLP:
		None.			_
	(2) Substance,	which are assigned Cor	nmunity workpla	ace exposure limits:	
		None.			
	(3) Substance, which are PBT or vPvB in accordance with the criteria set out in Annex XIII of REACH:				in Annex XIII of
		None.			
	(4) Substance, REACH (S)	which are included in th VHC):	e list established	d in accordance with A	Article 59(1) of
		None.			
	See section 16	for the full text of the H	statements decl	ared above.	
SECTIO	DN 4: First aid	measures			
4.1	Description of	first aid measures			
	Inhalation:	Remove from exposure Consult a doctor in cas			water.
	Skin contact:	Wash with soap and wa	ater.		
	Eye contact:	Flush with water immed	diately and see a	a doctor if irritating.	

Ingestion: Rinse out the mouth. Drink one or two glasses of water to dilute. Seek medical treatment if necessary.





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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

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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 particles)

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 chemical properties		
Appearance		
Physical state	Solid (fine powder)	
Colour	Cyan	
Odour	Odourless	
Odour threshold	No data available.	
рН	No data available.	
Melting point [°C]	100-120 (Toner)	
Boiling point	No data available.	
Flash point	No data available.	
Evaporation rate	No data available.	
Flammability (solid, gas)	No data available.	
Upper flammability or explosive limit	No data available.	
Lower flammability or explosive limit	No data available.	
Vapour pressure	No data available.	
Vapour density	No data available.	
Relative density [g/cm 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

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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

11.1	Information on toxicological effects				
	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))	> 5.10 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 sensitizationSkin sensitizationNon-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	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 toxicant according to MAK, California Proposition 65, TRGS 905 und (EC) No 1272/2008 Annex VI.					
	STOT-single exposure	No data available.				
	STOT-repeated exposure	No data available.				
	Aspiration hazard	No data available.				
	Chronic effects					
In a study in rats by chronic inhalation exposure to a typical toner, a mild to mode of lung fibrosis was observed in 92% of the rats in the high concentration (16 mg exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the middle (4mg/m ³) exposure group (1). But no pulmonary change was reported in t (1mg/m ³) exposure group, the most relevant level to potential human exposures.		in 92% of the rats in the high concentration (16 mg/m ³) al to mild degree of fibrosis was noted in 22% of the animal in the pup (1). But no pulmonary change was reported in the lowest				
	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 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) 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			
canno contai	e best of our knowledge, the information t assume any liability whatsoever for ned herein. The contents and format No 1907/2006, Annex II as amended b	the accuracy or completeness of of this SDS are in accordance wit	the information h Regulation	
Revision infor	mation: -			
Full text of H s	statements under sections 3: Not appl	icable		
Abbreviations a	nd acronyms			
Abbreviations and acronyms ACGIH American Conference of Governmental Industrial Hygienists 2016 TLVs and BEIs (Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices) CAS Chemical Abstracts Service CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures DFG Deutsche Forschungsgemeinschaft EPA Environmental Protection Agency (Integrated Risk Information System) (US) IARC International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks				
MAK NTP OSHA PBT PEL Proposition 65 REACH	to Humans) Maximale Arbeitsplatzkonzentration der Deu National Toxicology Program (Report on Ca Occupational Safety and Health Administrat Persistent, Bio accumulative and Toxic Permissible Exposure Limits California, Safe Drinking Water and Toxic El Regulation (EC) No 1907/2006 concerning t Chemicals	rcinogens) (US) ion (29 CFR Part 1910 Subpart Z) nforcement Act of 1986	and Restriction of	
STOT SVHC TRGS 905 TSCA TWA UN vPvB WHMIS	Chemicals Specific target organ toxicity Substances of Very High Concern Technische Regeln für Gefahrstoffe (Deutsc Toxic Substances Control Act (US) Time Weighted Average United Nations very Persistent and very Bio accumulative Workplace Hazardous Materials Information			
Key literature re	ferences and sources for data			

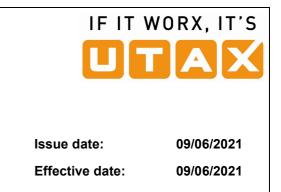
(1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, H. Muhle et al., Fundamental and Applied Toxicology 17.280-299 (1991) Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology 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 "CK8532C(TR)-TA-UT-01-EN"; 09/06/2021 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
		4008ci
	Consumable name	CK-8532K
	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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		ent Business		mc	ΓΑΧ
	А КҮОС	ERA GROUP COMPANY			
	ty Data Sh	eet on (EC) No 1907/2006 (RI	EACH)		
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050710		tion/information on in	una dia mén		
SECTIC	DN 3: Composi	tion/information on ing	grealents		
3.2	Mixtures				
	Chemical name	2	<u>CAS No</u>	-	assification (CLP)
	Polyester resin Ferrite (Ferrite Carbon Black Amorphous sili Aluminium com	including manganese) ca	confidential 66402-68-4 1333-86-4 7631-86-9 1344-28-1	70-80 5-10 (as Mn: < 3) 3-8 1-5 < 1	
	Information of		1344-20-1	< 1	
		-	or environmenta	I bazard within the r	neaning of CLP:
	(1) Substance, which present a health or environmental hazard within the meaning of CLP: None.				
	(2) Substance	which are assigned Cor	nmunitv workola	ice exposure limits:	
	(_) calotaco,	None.			
	(3) Substance, REACH:	which are PBT or vPvB	in accordance w	vith the criteria set o	ut in Annex XIII of
		None.			
	(4) Substance, REACH (S)	which are included in th VHC):	e list established	d in accordance with	Article 59(1) of
		None.			
	See section 16	for the full text of the H	statements decl	ared above.	
SECTIC	ON 4: First aid	measures			
4.1	Description of	first aid measures			
7.1	Inhalation:	Remove from exposure	to fresh air and	l garale with plenty	of water
		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 irritating.	

Ingestion: Rinse out the mouth. Drink one or two glasses of water to dilute. Seek medical treatment if necessary.





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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

Dust explosion properties

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

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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 particles)

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

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/cm3]	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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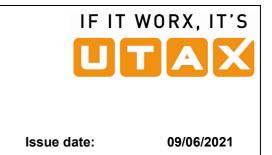
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SECTION 10: Stability and reactivity

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10.1 Reactivity

No data available.

10.2 Chemical stability

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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

11.1	Information on toxicological	Information on toxicological effects		
	Based on available data, the classification criteria listed below are not met.			
	Acute toxicity			
	Oral (LD ₅₀)	> 2000 mg/kg (rat)* (Toner) > 2500 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/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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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 und (EC) No 1272/2008 Annex VI.
Carcinogenicity	
Information of ingredients:	
	cinogen (except Carbon Black) according to IARC, Japan th, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, 2008 Annex VI.
humans) as the result of inhala carcinogenicity (2). The evalua tumours in rat receiving chroni particle overload of the lung. T demonstrated an association b cancer bioassay using a typica	n Black as a Group 2B carcinogen (possibly carcinogenic to ation exposure test in rats. But, oral/skin test does not show ation of Carbon Black is based upon the development of lung ic inhalation exposures to free Carbon Black at level that induce 'he studies performed in animal models other than rats have not between Carbon Black and lung tumours. Moreover, a two years al toner preparation containing Carbon Black demonstrated no bosure and tumour development in rats (1).
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 inf	halation exposure to a typical toner, a mild to moderate degree
of lung fibrosis was observed i exposure group, and a minima middle (4mg/m ³) exposure gro	In 92% of the rats in the high concentration (16 mg/m ³) al to mild degree of fibrosis was noted in 22% of the animal in the up (1). But no pulmonary change was reported in the lowest most relevant level to potential human exposures.





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

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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 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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Issue date:





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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) 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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The Document Business				
Safety Da	ata Sheet			
according to I	Regulation (EC) No 1907/2006 (REACH)			
SDS Number:	CK8532K-TA-UT-01-EN	Issue date:	09/06/2021	
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SECTION 16:	Other information			
SECTION TO.	Other mormation			
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 infor	mation: -			
Full text of H s	statements under sections 3: Not applicable			
Abbreviations a	nd acronyms			
ACGIH CAS CLP DFG EPA IARC MAK NTP OSHA PBT PEL	American Conference of Governmental Industrial H 2016 TLVs and BEIs (Threshold Limit Values for Cr Exposure Indices) Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, lab Deutsche Forschungsgemeinschaft Environmental Protection Agency (Integrated Risk I International Agency for Research on Cancer (IARC to Humans) Maximale Arbeitsplatzkonzentration der Deutschen National Toxicology Program (Report on Carcinoge Occupational Safety and Health Administration (29 Persistent, Bio accumulative and Toxic Permissible Exposure Limits	emical Substances and Physical elling and packaging of substance nformation System) (US) Monographs on the Evaluations Forschungsgesellschaft (2011) ns) (US) CFR Part 1910 Subpart Z)	es and mixtures	
Proposition 65 REACH STOT SVHC TRGS 905 TSCA TWA UN vPvB WHMIS	California, Safe Drinking Water and Toxic Enforcem Regulation (EC) No 1907/2006 concerning the Regi Chemicals Specific target organ toxicity Substances of Very High Concern Technische Regeln für Gefahrstoffe (Deutschland) Toxic Substances Control Act (US) Time Weighted Average United Nations very Persistent and very Bio accumulative Workplace Hazardous Materials Information System	stration, Evaluation, Authorizatior	and Restriction of	
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 "CK8532K-TA-UT-01-EN"; 09/06/2021 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.





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

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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
		4008ci
	Consumable name	CK-8532M
	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 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.

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The Document Business					
	А КҮОС	ERA GROUP COMPANY			
	ty Data Sh ing to Regulatio	eet on (EC) No 1907/2006 (RI	EACH)		
SDS N	umber: CK853	2M-TA-UT-01-EN		Issue date:	09/06/2021
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				•	
SECTIC	DN 3: Composi	ition/information on ing	gredients		
3.2	Mixtures				
	Chemical name	<u>9</u>	CAS No	Weight% Class	ification (CLP)
	Polyester resin Ferrite (Ferrite Organic pigme Amorphous sili Aluminium com	including manganese) nt ca	confidential 66402-68-4 confidential 7631-86-9 1344-28-1	70-80 5-10(as Mn: < 3) 3-8 1-5 < 1	
	Information of ingredients				
	(1) Substance, which present a health or environmental hazard within the meaning of CLP:				
	None.				
	(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:				in Annex XIII of
		None.			
	(4) Substance, REACH (S)	which are included in th VHC):	e list established	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	first aid measures			
7.1	Inhalation:	Remove from exposure	to freeh air and	l gargle with plopty of y	vator
		Consult a doctor in cas			vaioi.
	Skin contact:	Wash with soap and wa	ater.		
	Eye contact:	Flush with water immed	diately and see a	a doctor if irritating.	

Ingestion: Rinse out the mouth. Drink one or two glasses of water to dilute. Seek medical treatment if necessary.





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

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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

01

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 particles)

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)

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SECTION 9: Physical and chemical properties

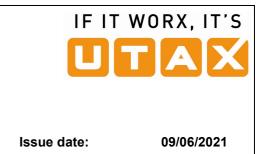
Information on basic physical and chemical properties				
Appearance				
Physical state	Solid (fine powder)			
Colour	Magenta			
Odour	Odourless			
Odour threshold	No data available.			
рН	No data available.			
Melting point [°C]	100-120 (Toner)			
Boiling point	No data available.			
Flash point	No data 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/cm3]	1.2-1.4 (Toner)			
Solubility (ies)	Almost insoluble in water.			
Partition coefficient: n-octanol/water	No data available.			
Auto-ignition temperature	No data available.			
Decomposition temperature	No data available.			
Viscosity	No data available.			
Explosive properties	No data available.			
Oxidizing properties	No data available.			

9.2 Other information

Dust explosion properties

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





according to Regulation	(EC) No	1907/2006	(REACH)
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SECTION 10: Stability and reactivity

01

10.1 Reactivity

No data available.

10.2 Chemical stability

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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

11.1	Information on toxicological effects			
	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			
	Acute eye irritation	Mild irritant (rabbit)*. (Toner)		
	Respiratory or skin sensitization			
	Skin sensitization	Non-sensitising (mouse)* (Toner) Non-sensitising** (Carrier)		





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11.1

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 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 toxicant according to MAK, California Proposition 65, TRGS 905 und (EC) No 1272/2008 Annex VI.

STOT-single exposure	No data available.
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STOT-repeated exposure No data available.

Aspiration hazard No data available.

Chronic effects

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

Other information

No data available.





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

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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 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) 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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The	A KYOCERA GROUP COMPANY		
•	ata Sheet Regulation (EC) No 1907/2006 (REACH)		
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SECTION 16:	Other information		
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canno conta	e best of our knowledge, the information c of assume any liability whatsoever for the ined herein. The contents and format of the No 1907/2006, Annex II as amended by R	accuracy or completeness of is SDS are in accordance wit	the information h Regulation
Revision infor	mation: -		
Full text of H s	statements under sections 3: Not applicab	le	
Abbreviations a	nd acronyms		
ACGIH CAS CLP DFG EPA IARC MAK NTP OSHA PBT PEL Proposition 65 REACH STOT SVHC TRGS 905 TSCA TWA UN vPvB WHMIS	American Conference of Governmental Industrial 2016 TLVs and BEIs (Threshold Limit Values for Exposure Indices) Chemical Abstracts Service Regulation (EC) No 1272/2008 on classification, Deutsche Forschungsgemeinschaft Environmental Protection Agency (Integrated Ris International Agency for Research on Cancer (IA to Humans) Maximale Arbeitsplatzkonzentration der Deutsche National Toxicology Program (Report on Carcino Occupational Safety and Health Administration (2 Persistent, Bio accumulative and Toxic Permissible Exposure Limits California, Safe Drinking Water and Toxic Enforce Regulation (EC) No 1907/2006 concerning the Re Chemicals Specific target organ toxicity Substances of Very High Concern Technische Regeln für Gefahrstoffe (Deutschland Toxic Substances Control Act (US) Time Weighted Average United Nations very Persistent and very Bio accumulative Workplace Hazardous Materials Information Systemi	Chemical Substances and Physical labelling and packaging of substance k Information System) (US) RC Monographs on the Evaluations en Forschungsgesellschaft (2011) gens) (US) 29 CFR Part 1910 Subpart Z) ement Act of 1986 egistration, Evaluation, Authorization	es and mixtures of Carcinogenic Risks
-	ferences and sources for data		
	nary Response to Toner upon Chronic Inhalation Exp ogy 17.280-299 (1991) Lung Clearance and Retenti		

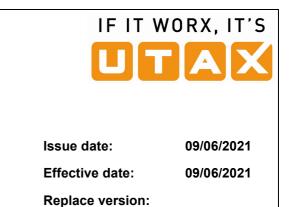
Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology 17.300-313 (1991)

(2) (3)

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 Exposure to Titanium Dioxide DRAFT"

The contents are in accordance with Material Safety Data Sheet "CK8532M(TR)-TA-UT-01-EN"; 09/06/2021 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan. (4)





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

SDS Number: CK8532Y-TA-UT-01-EN

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Revision date:

Version:

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

1.1	Product identifier			
	Product name	Yellow Toner for		
		4008ci		
	Consumable name	CK-8532Y		
	Product form	Mixture		
1.2	Relevant identified u	ses of the substance or mixture and uses advised against		
	Identified uses	The image formation of our electrophotographic equipment. Other uses are not recommended.		
1.3	Details of the supplie	er of the safety data sheet		
	Manufacturer	KYOCERA Document Solutions Inc.		
	Address	1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan		
	Supplier	TA Triumph-Adler GmbH		
	Address	Deelbögenkamp 4c 22297 Hamburg Germany		
1.4	Emergency telephon	e number +49 (0) 40 / 528490 (This number is available only during office hours)		

SECTION 2: Hazards identification

Classification according to Regulation (EC) No 1272/2008 (CLP) Not classified as hazardous mixture. Label elements Labelling according to Regulation (EC) No 1272/2008 (CLP)
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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	ty Data Sh	eet on (EC) No 1907/2006 (RI	EACH)		
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Revisio	on date:			Effective date:	09/06/2021
Versio	n: 01			Replace version:	
SECTIC	ON 3: Composi	ition/information on ing	gredients		
3.2	Mixtures				
0.2	Chemical name	<u>e</u>	CAS No	Weight% Class	sification (CLP)
	Polyester resin	(3 kinds)	confidential	70-80	
	Ferrite (Ferrite Organic pigme	including manganese)	66402-68-4 confidential	5-10(as Mn: < 3) 3-8	
	Amorphous silica 7631-86-9			1-5	
	Aluminium com		1344-28-1	< 1	
	Information of ingredients				
	(1) Substance, which present a health or environmental hazard within the meaning of CLP: None.				
	(2) Substance, which are assigned Community workplace exposure limits:				
		None.	in coordonoo u		in Annov VIII of
	(3) Substance, REACH:	which are PBT or vPvB	in accordance w	win the chiena set out	IN ANNEX XIII OI
		None.			
	(4) Substance, REACH (S)	which are included in th VHC):	e list established	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			
4.1	•		the free de la free and		
	Inhalation:	Remove from exposure Consult a doctor in cas		• • •	waler.
	Skin contact:	Wash with soap and wa	ater.		
	Eye contact:	Flush with water immed	diately and see a	a doctor if irritating.	

Ingestion: Rinse out the mouth. Drink one or two glasses of water to dilute. Seek medical treatment if necessary.





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

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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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Version:

6.4 Reference to other sections

01

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 particles)

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

9.1 Information on basic physical and chemical properties

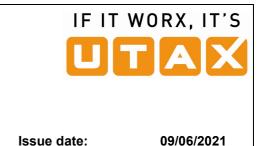
Appearance	
Physical state	Solid (fine powder)
Colour	Yellow
Odour	Odourless
Odour threshold	No data available.
рН	No data available.
Melting point [°C]	100-120 (Toner)
Boiling point	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper flammability or explosive limit	No data available.
Lower flammability or explosive limit	No data available.
Vapour pressure	No data available.
Vapour density	No data available.
Relative density [g/cm 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

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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

11.1	Information on toxicological effects		
	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))	> 5.10 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)	





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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:		
	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/m ³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4mg/m ³) exposure group (1). But no pulmonary change was reported in the lowest (1mg/m ³) exposure group, the most relevant level to potential human exposures.		
	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 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) 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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Safety Da according to R	ata Sheet Regulation (EC) No 1907/2006 (REAC	CH)	
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SECTION 16:	Other information		
cannot contair	best of our knowledge, the informati t assume any liability whatsoever for ned herein. The contents and format No 1907/2006, Annex II as amended mation: -	the accuracy or completeness of of this SDS are in accordance wit	the information th Regulation
		P 1.1.	
Full text of H s	tatements under sections 3: Not app	licable	
Abbreviations an	id acronyms		
ACGIH CAS CLP DFG EPA IARC MAK NTP OSHA PBT PEL Proposition 65 REACH STOT SVHC TRGS 905 TSCA	American Conference of Governmental Inde 2016 TLVs and BEIs (Threshold Limit Value Exposure Indices) Chemical Abstracts Service Regulation (EC) No 1272/2008 on classifica Deutsche Forschungsgemeinschaft Environmental Protection Agency (Integrate International Agency for Research on Cance to Humans) Maximale Arbeitsplatzkonzentration der Den National Toxicology Program (Report on Ca Occupational Safety and Health Administrat Persistent, Bio accumulative and Toxic Permissible Exposure Limits California, Safe Drinking Water and Toxic E Regulation (EC) No 1907/2006 concerning to Chemicals Specific target organ toxicity Substances of Very High Concern Technische Regeln für Gefahrstoffe (Deutsc Toxic Substances Control Act (US) Time Weighted Average	es for Chemical Substances and Physical ation, labelling and packaging of substance ed Risk Information System) (US) er (IARC Monographs on the Evaluations sutschen Forschungsgesellschaft (2011) arcinogens) (US) tion (29 CFR Part 1910 Subpart Z) Enforcement Act of 1986 the Registration, Evaluation, Authorization	es and mixtures of Carcinogenic Risks

(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 "CK8532Y(TR)-TA-UT-01-EN"; 09/06/2021 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.