

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

1.1. Product identifier

Product name : Black Toner for ECOSYS PA5000x

: TK-3410
: Mixture
es of the substance or mixture and uses advised against
: The image formation of our electrophotographic equipments.
Other uses are not recommended.
of the safety data sheet
: KYOCERA Document Solutions Inc.
: 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan
: KYOCERA Document Solutions Europe B.V.
: Bloemlaan 4, 2132 NP Hoofddorp, The Netherlands
: +31(0)20-6540000
: msds@deu.kyocera.com
number

: For safety questions, please contact each sale site 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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

			Classification(CLP)
	CAS No.		
Polyester resin	Confidential	45-55	
Magnetite	Confidential	40-50	
Wax	Confidential	1-5	
Aluminium compound	1344-28-1	< 2	
Amorphous silica	7631-86-9	< 2	



Information of Ingredient	ts	
(1) Substance which pre	sent 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		
	: None.	
(4) Substance which are	included in the list established in accordance with Article 59(1) of REACH (SVHC)	
	: None.	
See section 16 for the fu	Ill text of the H statements declared above.	
SECTION 4: First aid		
4.1. Description of first		
Inhalation	: Remove from exposure to fresh air and gargle with plenty of water.	
	Consult a doctor in case of such symptoms as coughing.	
Skin Contact	: Wash with soap and water.	
Eye Contact	: Flush with water immediately and see a doctor if irritating.	
Ingestion	: Rinse out the mouth. Drink one or two glasses of water to dilute.	
4.2 Most important sy	Seek medical treatment if necessary. mptoms and effects, both acute and delayed	
Potential health effects a	•	
Inhalation	: Prolonged inhalation of excessive dusts may cause lung damage.	
minalation	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 in	mmediate medical attention and special treatment needed	

: No additional information available.

SECTION 5: Firefighting measure	S
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray, foam, powder, CO ₂ 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.
Protective equipment for firefighters	: None specified.



SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and em	ergency procedures
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: 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

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

6.4. Reference to other sections

See section 13 for disposal information.

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 keeping 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/m² (Inhalable particles), 3 mg/m² (Respirable particles) Aluminium insoluble compounds : 1 mg/m² (Respirable fraction)

US OSHA PEL (TWA)

Particles: 15 mg/m (Total dust), 5 mg/m (Respirable fraction) Amorphous silica: 80 mg/m 3/8SiO₂

EU Occupational exposure limits : Dire	ective 2000/39/EC, 2006/15/EC and 2009/161/EU
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.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	: Solid.
	(Fine powder)
Color	: Black.
Odor	: Odorless.
Odor threshold	: No data available.
рН	: No data available.
Melting point	: 125°C (Toner)
Boiling point	: No data available.
Flash point	: No data available.
Evaporation rate	: No data available.
Flammability (solid, gas)	: No data available.
Upper/lower flammability or explosive	: No data available.
limits	
Vapour pressure	: No data available.
Vapour density	: No data available.
Relative density	: 1.5-2.0 g/m (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.
Oxidising properties	: No data available.
9.2. Other information	
Dust explosion properties : Du	plosion is improbable under normal intended use.
Exporin	nontal avalasivances of tanar is classified into the s

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.

SECTION 10: Stability and read	tivity
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 read	ctions
	: Hazardous reactions will not occur.
10.4. Conditions to avoid	: None specified.
10.5. Incompatible materials	: None specified.
10.6. Hazardous decomposition p	roducts
	: 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 toxic	Jity	
Oral (LE	D ₅₀)	: > 2000 mg/kg (rat) (Based on test result of similar product.) (Toner)
Dermal	(LD ₅₀)	: > 2000 mg/kg (rat) (Based on test result of similar product.) (Toner)
Inhalatio	on (LC ₅₀ (4hr))	: > 5.0 mg/l (rat) (Based on test result of similar product.) (Toner)
Skin corro	sion/irritation	
Acute sl	kin irritation	: Non-irritant (rabbit) (Based on test result of similar product.) (Toner)
Acute e	ve damage/irritation ye irritation y or skin sensitisati nsitisation	: Minimal irritant (rabbit) (Based on test result of similar product.) (Toner)
Germ cell	mutagenicity	 : Ames Test is Negative. (Based on test result of constituent materials.) (Toner)
Carcinoge	nicity	 No mutagen, according to MAK, TRGS905 and (EC) No 1272/2008 Annex VI. 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.



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Reproductive toxicity	
Information of Ingredients	 No reproductive toxicant according to MAK, California Proposition 65, TRGS905 and (EC) No 1272/2008 Annex VI.
STOT-single exposure	: No data available.
STOT-repeated exposure	: No data available.
Aspiration hazard	: No data available.
Chronic effects	 In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16 mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4 mg/m³) exposure group. (*1) But no pulmonary change was reported in the lowest (1 mg/m³) exposure group, the most relevant level to potential human exposures.
Other information	: No data available.
SECTION 12: Ecological	information
12.1. Toxicity	: No data available.
12.2. Persistence and degr	radability : No data available.
12.3. Bioaccumulative pote	•
12.4. Mobility in soil	: No data available.
12.5. Results of PBT and v	PvB assessment
	: No data available.
12.6. Other adverse effects	: No additional information available.
SECTION 13: Disposal c 13.1. Waste treatment meth	hods
	: 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 r	name : None.
14.3. Transport hazard clas	ss(es) : None.
14.4. Packing group	: None.
14.5. Environmental hazaro	ds : None.
14.6. Special precautions f	
14.7. Transport in bulk acc	ording 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 Annex 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 hazardous chemicals, Annex I and Annex V as amended
: Not listed.
Regulation (EC) No 1907/2006, REACH Annex XVII as amended (Restrictions on use)
: Not listed.
Regulation (EC) No 1907/2006, REACH Annex XIV as amended (Authorisations)
: Not listed.
US regulations
All ingredients in this product comply with order under TSCA.
Canada regulations
This product is not a WHMIS-controlled product, since we consider it as a Manufactured article.

15.2. Chemical safety assessment

: No data available.

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	:	-	
Version	:	01	
Full text of H statements under sections 3.			
	:	Not applicable.	
Abbreviations and acronyms			
PBT	:	Persistent, Bioaccumulative and Toxic	
vPvB	:	Very Persistent and Very Bioaccumulative	
SVHC	:	Substances of Very High Concern	
CAS	:	Chemical Abstracts Service	
ACGIH	:	American Conference of Governmental Industrial Hygienists	
		2016 TLVs and BEIs (Threshold Limit Values for Chemical Substances and	
		Physica Agents and Biological Exposure Indices)	
OSHA	:	Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)	
TWA	:	Time Weighted Average	
PEL	:	Permissible Exposure Limits	
UN	:	United Nations	
IARC	:	International Agency for Research on Cancer	
		(IARC Monographs on the Evaluations of Carcinogenic Risks to Humans)	
EPA	:	Environmental Protection Agency (Integrated Risk Information System) (US)	
NTP	:	National Toxicology Program (Report on Carcinogens) (US)	
MAK	:	Maximale Arbeitsplatz-Konzentrationen (List of MAK and BAT Values 2011)	
		(DFG: Deutsche Forschungsgemeinschaft)	
Proposition 65	:	California, Safe Drinking Water and Toxic Enforcement Act of 1986	



TRGS905	: Technische Regeln für Gefahrstoffe (Deutschland)	
STOT	: Specific target organ toxicity	
TSCA	: Toxic Substances Control Act (US)	
WHMIS	: Workplace Hazardous Materials Information System (Canada)	
REACH	 Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals 	
CLP	 Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures 	

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"