



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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

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

1.1 Product identifier

Product name Cyan Toner for

P-C2157w MFP

Consumable name PK-5026C

Product form Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses The image formation of our electrophotographic equipment.

Other uses are not recommended.

1.3 Details of the supplier of the safety data sheet

Manufacturer KYOCERA Document Solutions Inc.

Address 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan

Supplier TA Triumph-Adler GmbH

Address Deelbögenkamp 4c

22297 Hamburg

Germany

1.4 Emergency telephone 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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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name CAS No Weight% Classification (CLP) Polyester resin (3 kinds) Confidential 80-90 None Organic pigment Confidential 3-8 None Wax Confidential 3-8 None

Amorphous silica

Amorphous silica

Aluminium compound

Confidential 3-8

None

None

None

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:

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 full text of the H statements declared above.

SECTION 4: First aid measures

4.1 Description of first aid measures

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.

Seek medical treatment if necessary.

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.

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4.2 Skin contact: Unlikely to cause skin irritation.

Eye contact: May cause transient eye irritation.

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

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam, powder, CO₂ or dry chemical

Unsuitable extinguishing media

None specified.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide, Carbon monoxide

5.3 Advice for firefighters

Fire-fighting procedures

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

Protection equipment for firefighters

None specified.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

See section 13 for disposal information.

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Revision date: Effective date: 27/03/2024

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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)

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

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)

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

Revision date: Effective date: 27/03/2024

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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	
Melting point/freezing point [°C]	100-120 (Toner)	
Boiling point or initial boiling point and boiling range	No data available.	
Flammability	No data available.	
Lower and upper explosion limit	No data available.	
Flash point	No data available.	
Auto-ignition temperature	No data available.	
Decomposition temperature	No data available.	
рН	No data available.	
Kinematic viscosity	No data available.	
Solubility	Almost insoluble in water.	
Partition coefficient: n-octanol/water (log value)	No data available.	
Vapour pressure	No data available.	
Density and/or relative density [g/cm³]	1.2-1.4 (Toner)	
Relative vapour density	Not applicable.	
 Particle characteristics [µm]	1-10 (Toner)	

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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Revision date: Effective date: 27/03/2024

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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 (LD50) > 2000 mg/kg (rat)* (Toner)Dermal (LD50) > 2000 mg/kg (rat)* (Toner)Inhalation (LC50(4hr)) > 5.10 mg/l (rat)* (Toner)

Skin corrosion/irritation

Acute skin irritation Non-irritant (rabbit)* (Toner)

Serious eye damage/irritation

Acute eye irritation Minimal irritant (rabbit)* (Toner)

Respiratory or skin sensitisation

Skin sensitisation Non-sensitising (mouse)* (Toner)

*(Based on test result of similar product)

Germ cell mutagenicity AMES test is negative (Toner).

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Revision date: Effective date: 27/03/2024

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11.1 Information of ingredients:

No mutagen according to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.

Carcinogenicity

Information of ingredients:

No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, TRGS 905 and (EC) No 1272/2008 Annex VI.

Reproductive toxicity

Information of ingredients:

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

STOT-single exposure No data available.

STOT-repeated exposure No data available.

Aspiration hazard No data available.

Chronic effects

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

11.2 Information on other hazards

Endocrine disrupting properties No data available. **Other information** No data available.

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SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bio accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Do not attempt to incinerate the toner container or unit and the waste toner yourself. Dangerous sparks may cause burn. 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 or ID number

None.

14.2 UN Proper shipping name

None.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.

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14.5 Environmental hazards

None.

14.6 Special precautions for user

No additional information available.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

EU-regulations

Regulation (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 (Authorisations):

Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

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SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, Annex II as amended by Regulation (EU) 2020/878 with respect to SDSs.

Revision information: -

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

Abbreviations and acronyms

ACGIH American Conference of Governmental Industrial Hygienists

2016 TLVs and BEIs (Threshold Limit Values for Chemical Substances and Physical Agents and Biological

Exposure Indices)

CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

EPA Environmental Protection Agency (Integrated Risk Information System) (US)

IARC International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks

to Humans)

MAK Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)

NTP National Toxicology Program (Report on Carcinogens) (US)

OSHA Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)

PBT Persistent, Bio accumulative and Toxic

PEL Permissible Exposure Limits

Proposition 65 California, Safe Drinking Water and Toxic Enforcement Act of 1986

REACH Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals

STOT Specific target organ toxicity
SVHC Substances of Very High Concern

TRGS 905 Technische Regeln für Gefahrstoffe (Deutschland)

TSCA Toxic Substances Control Act (US)

TWA Time Weighted Average

UN United Nations

vPvB very Persistent and very Bio accumulative

WHMIS Workplace Hazardous Materials Information System (Canada)

Key literature references and sources for data

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

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

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

(4) The contents are in accordance with Material Safety Data Sheet "PK5026C-TA-UT-01-EN"; 27/03/2024 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.

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

1.1 Product identifier

Product name Black Toner for

P-C2157w MFP

Consumable name PK-5026K
Product form Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses The image formation of our electrophotographic equipment.

Other uses are not recommended.

1.3 Details of the supplier of the safety data sheet

Manufacturer KYOCERA Document Solutions Inc.

Address 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan

Supplier TA Triumph-Adler GmbH

Address Deelbögenkamp 4c

22297 Hamburg

Germany

1.4 Emergency telephone 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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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Classification (CLP) Chemical name CAS No Weight% Confidential 80-90 Polyester resin (3kinds) None Carbon black 1333-86-4 3-8 None Wax Confidential 3-8 None Amorphous silica 7631-86-9 1-2 None Aluminium compound 1344-28-1 < 1 None

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:

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 full text of the H statements declared above.

SECTION 4: First aid measures

4.1 Description of first aid measures

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.

Seek medical treatment if necessary.

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.

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4.2 Skin contact: Unlikely to cause skin irritation.

Eye contact: May cause transient eye irritation.

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

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam, powder, CO₂ or dry chemical

Unsuitable extinguishing media

None specified.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide, Carbon monoxide

5.3 Advice for firefighters

Fire-fighting procedures

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

Protection equipment for firefighters

None specified.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

See section 13 for disposal information.

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

Revision date: Effective date: 27/03/2024

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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)

Carbon black: 3 mg/m³ (Inhalable fraction)

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

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)

Carbon black: 3.5 mg/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.

Environmental exposure controls

No additional information available.

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Revision date: Effective date: 27/03/2024

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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	Black	
	Odour	Odourless	
	Melting point/freezing point [°C]	100-120 (Toner)	
	Boiling point or initial boiling point and boiling range	No data available.	
	Flammability	No data available.	
	Lower and upper explosion limit	No data available.	
	Flash point	No data available.	
	Auto-ignition temperature	No data available.	
	Decomposition temperature	No data available.	
	pH	No data available.	
	Kinematic viscosity	No data available.	
	Solubility	Almost insoluble in water.	
	Partition coefficient: n-octanol/water (log value)	No data available.	
	Vapour pressure	No data available.	
	Density and/or relative density [g/cm³]	1.2-1.4 (Toner)	
	Relative vapour density	Not applicable.	
	Particle characteristics [µm]	1-10 (Toner)	

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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Revision date: Effective date: 27/03/2024

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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). Dermal (LD_{50}) > 2000 mg/kg (rat)* (Toner). Inhalation (LC_{50} (4hr)) > 5.09 mg/l (rat)* (Toner).

Skin corrosion/irritation

Acute skin irritation Non-irritant (rabbit)* (Toner).

Serious eye damage/irritation

Acute eye irritation Minimal irritant (rabbit)* (Toner).

Respiratory or skin sensitisation

Skin sensitisation Non-sensitising (mouse)* (Toner).

*(Based on test result of similar product)

Germ cell mutagenicity AMES test is negative (Toner).

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

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11.1 Information of ingredients:

No mutagen according to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.

Carcinogenicity

Information of ingredients:

No carcinogen or potential carcinogen (except carbon black) according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, TRGS 905 and (EC) No 1272/2008 Annex VI.

The IARC reevaluated carbon black as a Group 2B carcinogen (possibly carcinogenic to humans) as the result of inhalation exposure test in rats. But, oral/skin test does not show carcinogenicity. (*2)

The evaluation of carbon black is based upon the development of lung tumours in rat receiving chronic inhalation exposures to free carbon black at level that induce particle overload of the lung.

The studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumours. Moreover, a two-years cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumour development in rats. (*1)

Reproductive toxicity

Information of ingredients:

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

STOT-single exposure No data available.

STOT-repeated 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.

11.2 Information on other hazards

Endocrine disrupting properties No data available. **Other information** No data available.

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Revision date: Effective date: 27/03/2024

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SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bio accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Do not attempt to incinerate the toner container or unit and the waste toner yourself. Dangerous sparks may cause burn. 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 or ID number

None.

14.2 UN Proper shipping name

None.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.

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14.5 Environmental hazards

None.

14.6 Special precautions for user

No additional information available.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

EU-regulations

Regulation (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 (Authorisations):

Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

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

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SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, Annex II as amended by Regulation (EU) 2020/878 with respect to SDSs.

Revision information: -

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

Abbreviations and acronyms

ACGIH American Conference of Governmental Industrial Hygienists

2016 TLVs and BEIs (Threshold Limit Values for Chemical Substances and Physical Agents and Biological

Exposure Indices)

CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

EPA Environmental Protection Agency (Integrated Risk Information System) (US)

IARC International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks

to Humans)

MAK Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)

NTP National Toxicology Program (Report on Carcinogens) (US)

OSHA Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)

PBT Persistent, Bio accumulative and Toxic

PEL Permissible Exposure Limits

Proposition 65 California, Safe Drinking Water and Toxic Enforcement Act of 1986

REACH Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals

STOT Specific target organ toxicity
SVHC Substances of Very High Concern

TRGS 905 Technische Regeln für Gefahrstoffe (Deutschland)

TSCA Toxic Substances Control Act (US)

TWA Time Weighted Average

UN United Nations

vPvB very Persistent and very Bio accumulative

WHMIS Workplace Hazardous Materials Information System (Canada)

Key literature references and sources for data

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

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

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

(4) The contents are in accordance with Material Safety Data Sheet "PK5026K-TA-UT-01-EN"; 27/03/2024 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.

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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

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

1.1 Product identifier

Product name Magenta Toner for

P-C2157w MFP

Consumable name PK-5026M

Product form Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses The image formation of our electrophotographic equipment.

Other uses are not recommended.

1.3 Details of the supplier of the safety data sheet

Manufacturer KYOCERA Document Solutions Inc.

Address 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan

Supplier TA Triumph-Adler GmbH

Address Deelbögenkamp 4c

22297 Hamburg

Germany

1.4 Emergency telephone 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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according to Regulation (EC) No 1907/2006 (REACH)

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name CAS No Weight% Classification (CLP) Polyester resin (3 kinds) Confidential 80-90 None Organic pigment Confidential 3-8 None Wax Confidential 3-8 None 7631-86-9 1-2 Amorphous silica None Aluminium compound 1344-28-1 < 1 None

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:

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 full text of the H statements declared above.

SECTION 4: First aid measures

4.1 Description of first aid measures

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.

Seek medical treatment if necessary.

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.

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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

4.2 Skin contact: Unlikely to cause skin irritation.

Eye contact: May cause transient eye irritation.

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

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam, powder, CO₂ or dry chemical

Unsuitable extinguishing media

None specified.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide, Carbon monoxide

5.3 Advice for firefighters

Fire-fighting procedures

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

Protection equipment for firefighters

None specified.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

See section 13 for disposal information.

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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

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)

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

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)

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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

SECTION 9: Physical and chemical properties

.1	Information on basic physical and chemical properties		
	Appearance		
	Physical state	Solid (fine powder)	
	Colour	Magenta	
	Odour	Odourless	
	Melting point/freezing point [°C]	100-120 (Toner)	
	Boiling point or initial boiling point and boiling range	No data available.	
	Flammability	No data available.	
	Lower and upper explosion limit	No data available.	
	Flash point	No data available.	
	Auto-ignition temperature	No data available.	
	Decomposition temperature	No data available.	
	рН	No data available.	
	Kinematic viscosity	No data available.	
	Solubility	Almost insoluble in water.	
	Partition coefficient: n-octanol/water (log value)	No data available.	
	Vapour pressure	No data available.	
	Density and/or relative density [g/cm³]	1.2-1.4 (Toner)	
	Relative vapour density	Not applicable.	
	Particle characteristics [µm]	1-10 (Toner)	

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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

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 (LD50) > 2000 mg/kg (rat)* (Toner)Dermal (LD50) > 2000 mg/kg (rat)* (Toner)Inhalation (LC50(4hr)) > 5.08 mg/l (rat)* (Toner)

Skin corrosion/irritation

Acute skin irritation Non-irritant (rabbit)* (Toner)

Serious eye damage/irritation

Acute eye irritation Minimal irritant (rabbit)* (Toner)

Respiratory or skin sensitisation

Skin sensitisation Non-sensitising (mouse)* (Toner)

*(Based on test result of similar product)

Germ cell mutagenicity AMES test is negative (Toner).

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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

11.1 Information of ingredients:

No mutagen according to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.

Carcinogenicity

Information of ingredients:

No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, TRGS 905 and (EC) No 1272/2008 Annex VI.

Reproductive toxicity

Information of ingredients:

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

STOT-single exposure No data available.

STOT-repeated exposure No data available.

Aspiration hazard No data available.

Chronic effects

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

11.2 Information on other hazards

Endocrine disrupting properties No data available. **Other information** No data available.

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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bio accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Do not attempt to incinerate the toner container or unit and the waste toner yourself. Dangerous sparks may cause burn. 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 or ID number

None.

14.2 UN Proper shipping name

None.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.

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

Revision date: Effective date: 27/03/2024

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14.5 Environmental hazards

None.

14.6 Special precautions for user

No additional information available.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

EU-regulations

Regulation (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 (Authorisations):

Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, Annex II as amended by Regulation (EU) 2020/878 with respect to SDSs.

Revision information: -

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

Abbreviations and acronyms

ACGIH American Conference of Governmental Industrial Hygienists

2016 TLVs and BEIs (Threshold Limit Values for Chemical Substances and Physical Agents and Biological

Exposure Indices)

CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

EPA Environmental Protection Agency (Integrated Risk Information System) (US)

IARC International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks

to Humans)

MAK Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)

NTP National Toxicology Program (Report on Carcinogens) (US)

OSHA Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)

PBT Persistent, Bio accumulative and Toxic

PEL Permissible Exposure Limits

Proposition 65 California, Safe Drinking Water and Toxic Enforcement Act of 1986

REACH Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals

STOT Specific target organ toxicity
SVHC Substances of Very High Concern

TRGS 905 Technische Regeln für Gefahrstoffe (Deutschland)

TSCA Toxic Substances Control Act (US)

TWA Time Weighted Average

UN United Nations

vPvB very Persistent and very Bio accumulative

WHMIS Workplace Hazardous Materials Information System (Canada)

Key literature references and sources for data

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

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

(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 "PK5026M-TA-UT-01-EN"; 27/03/2024 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.

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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

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

1.1 Product identifier

Product name Yellow Toner for

P-C2157w MFP

Consumable name PK-5026Y

Product form Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses The image formation of our electrophotographic equipment.

Other uses are not recommended.

1.3 Details of the supplier of the safety data sheet

Manufacturer KYOCERA Document Solutions Inc.

Address 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan

Supplier TA Triumph-Adler GmbH

Address Deelbögenkamp 4c

22297 Hamburg

Germany

1.4 Emergency telephone 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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according to Regulation (EC) No 1907/2006 (REACH)

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name CAS No Weight% Classification (CLP) Polyester resin (3 kinds) Confidential 80-90 None Organic pigment Confidential 3-8 None Wax Confidential 3-8 None 7631-86-9 1-2 Amorphous silica None Aluminium compound 1344-28-1 < 1 None

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:

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 full text of the H statements declared above.

SECTION 4: First aid measures

4.1 Description of first aid measures

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.

Seek medical treatment if necessary.

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.

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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

4.2 Skin contact: Unlikely to cause skin irritation.

Eye contact: May cause transient eye irritation.

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

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam, powder, CO₂ or dry chemical

Unsuitable extinguishing media

None specified.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide, Carbon monoxide

5.3 Advice for firefighters

Fire-fighting procedures

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

Protection equipment for firefighters

None specified.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

See section 13 for disposal information.

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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

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)

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

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)

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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties		
Appearance		
Physical state	Solid (fine powder)	
Colour	Yellow	
Odour	Odourless	
Melting point/freezing point [°C]	100-120 (Toner)	
Boiling point or initial boiling point and boiling range	No data available.	
Flammability	No data available.	
Lower and upper explosion limit	No data available.	
Flash point	No data available.	
Auto-ignition temperature	No data available.	
Decomposition temperature	No data available.	
рН	No data available.	
Kinematic viscosity	No data available.	
Solubility	Almost insoluble in water.	
Partition coefficient: n-octanol/water (log value)	No data available.	
Vapour pressure	No data available.	
Density and/or relative density [g/cm³]	1.2-1.4 (Toner)	
Relative vapour density	Not applicable.	
Particle characteristics [µm]	1-10 (Toner)	

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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

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 (LD50) > 2000 mg/kg (rat)* (Toner)Dermal (LD50) > 2000 mg/kg (rat)* (Toner)Inhalation (LC50(4hr)) > 5.10 mg/l (rat)* (Toner)

Skin corrosion/irritation

Acute skin irritation Non-irritant (rabbit)* (Toner)

Serious eye damage/irritation

Acute eye irritation Minimal irritant (rabbit)* (Toner)

Respiratory or skin sensitisation

Skin sensitisation Non-sensitising (mouse)* (Toner)

*(Based on test result of similar product)

Germ cell mutagenicity AMES test is negative (Toner).

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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

11.1 Information of ingredients:

No mutagen according to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.

Carcinogenicity

Information of ingredients:

No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, TRGS 905 and (EC) No 1272/2008 Annex VI.

Reproductive toxicity

Information of ingredients:

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

STOT-single exposure No data available.

STOT-repeated exposure No data available.

Aspiration hazard No data available.

Chronic effects

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

11.2 Information on other hazards

Endocrine disrupting properties No data available. **Other information** No data available.

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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bio accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Do not attempt to incinerate the toner container or unit and the waste toner yourself. Dangerous sparks may cause burn. 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 or ID number

None.

14.2 UN Proper shipping name

None.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.

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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

14.5 Environmental hazards

None.

14.6 Special precautions for user

No additional information available.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

EU-regulations

Regulation (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 (Authorisations):

Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

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

Revision date: Effective date: 27/03/2024

Version: 01 Replace version:

SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, Annex II as amended by Regulation (EU) 2020/878 with respect to SDSs.

Revision information: -

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

Abbreviations and acronyms

ACGIH American Conference of Governmental Industrial Hygienists

2016 TLVs and BEIs (Threshold Limit Values for Chemical Substances and Physical Agents and Biological

Exposure Indices)

CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

EPA Environmental Protection Agency (Integrated Risk Information System) (US)

IARC International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks

to Humans)

MAK Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)

NTP National Toxicology Program (Report on Carcinogens) (US)

OSHA Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)

PBT Persistent, Bio accumulative and Toxic

PEL Permissible Exposure Limits

Proposition 65 California, Safe Drinking Water and Toxic Enforcement Act of 1986

REACH Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals

STOT Specific target organ toxicity
SVHC Substances of Very High Concern

TRGS 905 Technische Regeln für Gefahrstoffe (Deutschland)

TSCA Toxic Substances Control Act (US)

TWA Time Weighted Average

UN United Nations

vPvB very Persistent and very Bio accumulative

WHMIS Workplace Hazardous Materials Information System (Canada)

Key literature references and sources for data

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

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

(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 "PK5026Y-TA-UT-01-EN"; 27/03/2024 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.

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