

Safety Data Sheet

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

| | |
|--------------------------------------|-----------------------------------|
| SDS Number: 2JZTC-TA-UT-02-EN | Issue date: 26.02.2015 |
| Revision date: 07.03.2016 | Effective date: 07.03.2016 |
| Version: 02 | Replace version: 01 |

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

1.1 Product identifier

Product name Cyan Toner for
 CDC 1725, CDC 1730 / DCC 2725, DCC 2730

Consumable name

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 equipments.
 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 Ohechaussee 235
 22848 Norderstedt
 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

3.1 Substances

This product is a mixture.

3.2 Mixtures

| <u>Chemical name</u> | <u>CAS-No</u> | <u>[Weight %]</u> |
|---------------------------|---------------|-------------------|
| Polyester resin (2 kinds) | confidential | 75-85 |
| Organic pigment | confidential | 1-5 |
| Amorphous silica | 7631-86-9 | 1-5 |
| Titanium dioxide | 13463-67-7 | < 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: 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

General information: No data available.

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.

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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

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

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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 uses

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

US ACGIH Threshold Limit Values (TWA)

Particles: 10mg/m³ (Inhalable particles) 3mg/m³ (Respirable particles)
Titanium dioxide: 10mg/m³

US OSHA PEL (TWA)

Particles: 15mg/m³ (Total dust) 5mg/m³ (Respirable fraction)
Amorphous silica: 80mg/m³/%SiO₂ Titanium dioxide: 15mg/m³ (Total dust)

EU Occupational exposure limits: Directive (EC) 2000/39, (EC) 2006/15 und (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) |
| Color | Cyan |
| Odor | Odorless |
| Odor threshold | No data available. |
| pH | No data available. |
| Melting range [°C] | 100-120 (Toner) |
| Initial boiling point [°C] | No data available. |
| Flash point [°C] | No data available. |
| Evaporation rate | No data available. |
| Flammability (solid, gas) | No data available. |
| Upper flammability or explosive limits | No data available. |
| Lower flammability or explosive limits | No data available. |
| Vapor pressure | No data available. |
| Vapor density | No data available. |
| Relative density [g/m ³] | 1.2-1.4 (Toner) |
| Solubility in water | Almost insoluble in water. |
| Partition coefficient: n-octanol/water | No data available. |
| Auto-ignition temperature [°C] | No data available. |
| Decomposition temperature [°C] | No data available. |
| Viscosity | No data available. |
| Explosive properties | No data available. |
| Oxidizing properties | No data available. |

9.2 Other information

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

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SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur.

10.4 Conditions to avoid

None specified.

10.5 Incompatible materials

None specified.

10.6 Hazardous decomposition products

Hazardous decomposition products are not to be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Based on available data, the classification criteria listed below are not met.

Acute toxicity

| | |
|-------------------------------------|---|
| Oral (LD ₅₀) | >2000mg/kg (rat)* |
| Dermal (LD ₅₀) | No data available. (Toner) |
| Inhalation (LC ₅₀ (4hr)) | >4.98 mg/l (rat)* (This value is the maximum attainable concentration for dust) |

Skin corrosion/irritation

Acute skin irritation Mild irritant. (rabbit)*

Serious eye damage/irritation

Acute eye irritation Minimal irritant. (rabbit)*

Respiratory or skin sensitization

Skin sensitization Non-sensitizer. (mouse)*

*(based on test result of similar product) (Toner)

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11.1 Germ cell mutagenicity Ames test is negative. (Toner)

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 (except Titanium dioxide) according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, TRGS 905 und (EC) No 1272/2008 Annex VI.

The IARC reevaluated Titanium dioxide as a Group 2B carcinogen (possibly carcinogenic to humans) as the result of inhalation exposure tests in rats. But, oral/skin tests does not show carcinogenicity (2). In the animal chronic inhalation studies for Titanium dioxide, the lung tumor was observed only in rats. It is estimated that this is attributed to the overload of rat's lung clearance mechanism (overload phenomenon) (3). The inhalation of excessive Titanium dioxide does not occur in normal use of this product. Also, epidemiological studies to date have not revealed any evidence of the relation between occupational exposure to Titanium dioxide and respiratory tract diseases.

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 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.

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SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative 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

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None.

14.5 Environmental hazards

None.

14.6 Special precautions for user

No additional information available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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 (EC) No 850 / 2004 (on persistent organic pollutants, Annex I as amended):
Not listed.

Regulation (EC) No 689 / 2008 (concerning the export and import of dangerous chemicals, Annex I and V as amended):
Not listed.

Regulation (EC) No 1907 / 2006 REACH Annex XVII as amended (Restrictions on use):
Not listed.

Regulation (EC) No 1907 / 2006 REACH Annex XIV as amended (Authorizations):
Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

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SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, Annex II as amended by Regulation (EU) No 453/2010 with respect to SDSs.

Revision information: Format change

Full text of H statements under sections 3: Not applicable

Abbreviations and acronyms

| | |
|----------------|--|
| ACGIH | American Conference of Governmental Industrial Hygienists (2010) |
| 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) (USA) |
| 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) (USA) |
| OSHA | Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z) |
| PBT | Persistent, Bioaccumulative and Toxic |
| PEL | Permissible Exposure Limits |
| REACH | Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals |
| Proposition 65 | California, Safe Drinking Water and Toxic Enforcement Act of 1986 |
| TRGS 905 | Technische Regeln für Gefahrstoffe (Deutschland) |
| SVHC | Substances of Very High Concern |
| TSCA | Toxic Substances Control Act (USA) |
| TWA | Time Weighted Average |
| UN | United Nations |
| vPvB | very Persistent and very Bioaccumulative |
| WHMIS | Workplace Hazardous Materials Information System (Canada) |

Key literature references and sources for data

- (1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, H. Muhle et al., Fundamental and Applied Toxicology 17.280-299 (1991) Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology 17.300-313 (1991)
- (2) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93
- (3) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"

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(4) The contents are in accordance with Material Safety Data Sheet "2JZTC-TA-UT-02-EN"; 07/03/2016 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.

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

1.1 Product identifier

Product name Magenta Toner for
 CDC 1725, CDC 1730 / DCC 2725, DCC 2730

Consumable name

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 equipments.
 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 Ohechaussee 235
 22848 Norderstedt
 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

3.1 Substances

This product is a mixture.

3.2 Mixtures

| <u>Chemical name</u> | <u>CAS-No</u> | <u>[Weight %]</u> |
|---------------------------|---------------|-------------------|
| Polyester resin (2 kinds) | confidential | 75-85 |
| Organic pigment | confidential | 1-5 |
| Amorphous silica | 7631-86-9 | 1-5 |
| Titanium dioxide | 13463-67-7 | < 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: 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

General information: No data available.

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.

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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

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

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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 uses

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

US ACGIH Threshold Limit Values (TWA)

Particles: 10mg/m³ (Inhalable particles) 3mg/m³ (Respirable particles)
Titanium dioxide: 10mg/m³

US OSHA PEL (TWA)

Particles: 15mg/m³ (Total dust) 5mg/m³ (Respirable fraction)
Amorphous silica: 80mg/m³/%SiO₂ Titanium dioxide: 15mg/m³ (Total dust)

EU Occupational exposure limits: Directive (EC) 2000/39, (EC) 2006/15 und (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) |
| Color | Magenta |
| Odor | Odorless |
| Odor threshold | No data available. |
| pH | No data available. |
| Melting range [°C] | 100-120 (Toner) |
| Initial boiling point [°C] | No data available. |
| Flash point [°C] | No data available. |
| Evaporation rate | No data available. |
| Flammability (solid, gas) | No data available. |
| Upper flammability or explosive limits | No data available. |
| Lower flammability or explosive limits | No data available. |
| Vapor pressure | No data available. |
| Vapor density | No data available. |
| Relative density [g/m ³] | 1.2-1.4 (Toner) |
| Solubility in water | Almost insoluble in water. |
| Partition coefficient: n-octanol/water | No data available. |
| Auto-ignition temperature [°C] | No data available. |
| Decomposition temperature [°C] | No data available. |
| Viscosity | No data available. |
| Explosive properties | No data available. |
| Oxidizing properties | No data available. |

9.2 Other information

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

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SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur.

10.4 Conditions to avoid

None specified.

10.5 Incompatible materials

None specified.

10.6 Hazardous decomposition products

Hazardous decomposition products are not to be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Based on available data, the classification criteria listed below are not met.

Acute toxicity

| | |
|-------------------------------------|----------------------------|
| Oral (LD ₅₀) | >2000mg/kg (rat)* |
| Dermal (LD ₅₀) | No data available. (Toner) |
| Inhalation (LC ₅₀ (4hr)) | >5.02 mg/l (rat)* |

Skin corrosion/irritation

Acute skin irritation Mild irritant. (rabbit)*

Serious eye damage/irritation

Acute eye irritation Minimal irritant. (rabbit)*

Respiratory or skin sensitization

Skin sensitization Non-sensitizer. (mouse)*

*(based on test result of similar product) (Toner)

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11.1 Germ cell mutagenicity Ames test is negative. (Toner)

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 (except Titanium dioxide) according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, TRGS 905 und (EC) No 1272/2008 Annex VI.

The IARC reevaluated Titanium dioxide as a Group 2B carcinogen (possibly carcinogenic to humans) as the result of inhalation exposure tests in rats. But, oral/skin tests does not show carcinogenicity (2). In the animal chronic inhalation studies for Titanium dioxide, the lung tumor was observed only in rats. It is estimated that this is attributed to the overload of rat's lung clearance mechanism (overload phenomenon) (3). The inhalation of excessive Titanium dioxide does not occur in normal use of this product. Also, epidemiological studies to date have not revealed any evidence of the relation between occupational exposure to Titanium dioxide and respiratory tract diseases.

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 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.

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SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative 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.

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14.4 Packing group

None.

14.5 Environmental hazards

None.

14.6 Special precautions for user

No additional information available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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 (EC) No 850 / 2004 (on persistent organic pollutants, Annex I as amended):
Not listed.

Regulation (EC) No 689 / 2008 (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.

Safety Data Sheet

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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) No 453/2010 with respect to SDSs.

Revision information: Format change

Full text of H statements under sections 3: Not applicable

Abbreviations and acronyms

| | |
|----------------|--|
| ACGIH | American Conference of Governmental Industrial Hygienists (2010) |
| 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) (USA) |
| 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) (USA) |
| OSHA | Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z) |
| PBT | Persistent, Bioaccumulative and Toxic |
| PEL | Permissible Exposure Limits |
| REACH | Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals |
| Proposition 65 | California, Safe Drinking Water and Toxic Enforcement Act of 1986 |
| TRGS 905 | Technische Regeln für Gefahrstoffe (Deutschland) |
| SVHC | Substances of Very High Concern |
| TSCA | Toxic Substances Control Act (USA) |
| TWA | Time Weighted Average |
| UN | United Nations |
| vPvB | very Persistent and very Bioaccumulative |
| WHMIS | Workplace Hazardous Materials Information System (Canada) |

Key literature references and sources for data

- (1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, H. Muhle et al., Fundamental and Applied Toxicology 17.280-299 (1991) Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology 17.300-313 (1991)
- (2) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93
- (3) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"

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(4) The contents are in accordance with Material Safety Data Sheet "2JZTM-TA-UT-02-EN"; 07/03/2016 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.

Safety Data Sheet

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

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

1.1 Product identifier

Product name Yellow Toner for
 CDC 1725, CDC 1730 / DCC 2725, DCC 2730

Consumable name

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 equipments.
 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 Ohechaussee 235
 22848 Norderstedt
 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.

Safety Data Sheet

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

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SECTION 3: Composition/information on ingredients

3.1 Substances

This product is a mixture.

3.2 Mixtures

| <u>Chemical name</u> | <u>CAS-No</u> | <u>[Weight %]</u> |
|---------------------------|---------------|-------------------|
| Polyester resin (2 kinds) | confidential | 75-85 |
| Organic pigment | confidential | 1-5 |
| Amorphous silica | 7631-86-9 | 1-5 |
| Titanium dioxide | 13463-67-7 | < 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: 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

General information: No data available.

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.

Safety Data Sheet

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

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

Safety Data Sheet

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

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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 uses

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

US ACGIH Threshold Limit Values (TWA)

Particles: 10mg/m³ (Inhalable particles) 3mg/m³ (Respirable particles)
Titanium dioxide: 10mg/m³

US OSHA PEL (TWA)

Particles: 15mg/m³ (Total dust) 5mg/m³ (Respirable fraction)
Amorphous silica: 80mg/m³/%SiO₂ Titanium dioxide: 15mg/m³ (Total dust)

EU Occupational exposure limits: Directive (EC) 2000/39, (EC) 2006/15 und (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) |
| Color | Yellow |
| Odor | Odorless |
| Odor threshold | No data available. |
| pH | No data available. |
| Melting range [°C] | 100-120 (Toner) |
| Initial boiling point [°C] | No data available. |
| Flash point [°C] | No data available. |
| Evaporation rate | No data available. |
| Flammability (solid, gas) | No data available. |
| Upper flammability or explosive limits | No data available. |
| Lower flammability or explosive limits | No data available. |
| Vapor pressure | No data available. |
| Vapor density | No data available. |
| Relative density [g/m ³] | 1.2-1.4 (Toner) |
| Solubility in water | Almost insoluble in water. |
| Partition coefficient: n-octanol/water | No data available. |
| Auto-ignition temperature [°C] | No data available. |
| Decomposition temperature [°C] | No data available. |
| Viscosity | No data available. |
| Explosive properties | No data available. |
| Oxidizing properties | No data available. |

9.2 Other information

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

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SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur.

10.4 Conditions to avoid

None specified.

10.5 Incompatible materials

None specified.

10.6 Hazardous decomposition products

Hazardous decomposition products are not to be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Based on available data, the classification criteria listed below are not met.

Acute toxicity

| | |
|-------------------------------------|----------------------------|
| Oral (LD ₅₀) | >2000mg/kg (rat)* |
| Dermal (LD ₅₀) | No data available. (Toner) |
| Inhalation (LC ₅₀ (4hr)) | >5.02 mg/l (rat)* |

Skin corrosion/irritation

Acute skin irritation Mild irritant. (rabbit)*

Serious eye damage/irritation

Acute eye irritation Minimal irritant. (rabbit)*

Respiratory or skin sensitization

Skin sensitization Non-sensitizer. (mouse)*

*(based on test result of similar product) (Toner)

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11.1 Germ cell mutagenicity Ames test is negative. (Toner)

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 (except Titanium dioxide) according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, TRGS 905 und (EC) No 1272/2008 Annex VI.

The IARC reevaluated Titanium dioxide as a Group 2B carcinogen (possibly carcinogenic to humans) as the result of inhalation exposure tests in rats. But, oral/skin tests does not show carcinogenicity (2). In the animal chronic inhalation studies for Titanium dioxide, the lung tumor was observed only in rats. It is estimated that this is attributed to the overload of rat's lung clearance mechanism (overload phenomenon) (3). The inhalation of excessive Titanium dioxide does not occur in normal use of this product. Also, epidemiological studies to date have not revealed any evidence of the relation between occupational exposure to Titanium dioxide and respiratory tract diseases.

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 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.

Safety Data Sheet

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SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative 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.

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14.4 Packing group

None.

14.5 Environmental hazards

None.

14.6 Special precautions for user

No additional information available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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 (EC) No 850 / 2004 (on persistent organic pollutants, Annex I as amended):
Not listed.

Regulation (EC) No 689 / 2008 (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.

Safety Data Sheet

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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) No 453/2010 with respect to SDSs.

Revision information: Format change

Full text of H statements under sections 3: Not applicable

Abbreviations and acronyms

| | |
|----------------|--|
| ACGIH | American Conference of Governmental Industrial Hygienists (2010) |
| 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) (USA) |
| 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) (USA) |
| OSHA | Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z) |
| PBT | Persistent, Bioaccumulative and Toxic |
| PEL | Permissible Exposure Limits |
| REACH | Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals |
| Proposition 65 | California, Safe Drinking Water and Toxic Enforcement Act of 1986 |
| TRGS 905 | Technische Regeln für Gefahrstoffe (Deutschland) |
| SVHC | Substances of Very High Concern |
| TSCA | Toxic Substances Control Act (USA) |
| TWA | Time Weighted Average |
| UN | United Nations |
| vPvB | very Persistent and very Bioaccumulative |
| WHMIS | Workplace Hazardous Materials Information System (Canada) |

Key literature references and sources for data

- (1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, H. Muhle et al., Fundamental and Applied Toxicology 17.280-299 (1991) Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology 17.300-313 (1991)
- (2) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93
- (3) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"

Safety Data Sheet

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(4) The contents are in accordance with Material Safety Data Sheet "2JZTY-TA-UT-02-EN"; 07/03/2016 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
CDC 1725, CDC 1730 / DCC 2725, DCC 2730

Consumable name

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 equipments.
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 Ohechaussee 235
22848 Norderstedt
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.

Safety Data Sheet

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

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SECTION 3: Composition/information on ingredients

3.1 Substances

This product is a mixture.

3.2 Mixtures

| <u>Chemical name</u> | <u>CAS-No</u> | <u>[Weight %]</u> |
|----------------------------|---------------|-------------------|
| Polyester resin | confidential | 70-80 |
| Carbon Black | 1333-86-4 | 5-10 |
| Styrene acrylate copolymer | confidential | 1-5 |
| Amorphous silica | 7631-86-9 | 1-5 |
| Titanium dioxide | 13463-67-7 | < 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:
 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

General information: No data available.

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.

Safety Data Sheet

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

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.

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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.

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 uses

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m³ (Inhalable particles) 3 mg/m³ (Respirable particles)
Carbon Black: 3.5 mg/m³ Titanium dioxide: 10mg/m³

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)
Carbon Black: 3.5 mg/m³ Amorphous silica: 80mg/m³/%SiO₂
Titanium dioxide: 15 mg/m³ (Total dust)

EU Occupational exposure limits: Directive (EC) 2000/39, (EC) 2006/15 und (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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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. |
| pH | No data available. |
| Melting range [°C] | 100-120 (Toner) |
| Initial boiling point [°C] | No data available. |
| Flash point [°C] | No data available. |
| Evaporation rate | No data available. |
| Flammability (solid, gas) | No data available. |
| Upper flammability or explosive limits | No data available. |
| Lower flammability or explosive limits | No data available. |
| Vapor pressure | No data available. |
| Vapor density | No data available. |
| Relative density [g/m ³] | 1.2-1.4 (Toner) |
| Solubility in water | Almost insoluble in water. |
| Partition coefficient: n-octanol/water | No data available. |
| Auto-ignition temperature [°C] | No data available. |
| Decomposition temperature [°C] | No data available. |
| Viscosity | No data available. |
| Explosive properties | No data available. |
| Oxidizing properties | No data available. |

9.2 Other information

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

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SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur.

10.4 Conditions to avoid

None specified.

10.5 Incompatible materials

None specified.

10.6 Hazardous decomposition products

Hazardous decomposition products are not to be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Based on available data, the classification criteria listed below are not met.

Acute toxicity

| | |
|-------------------------------------|----------------------------|
| Oral (LD ₅₀) | >2000mg/kg (rat)* |
| Dermal (LD ₅₀) | No data available. (Toner) |
| Inhalation (LC ₅₀ (4hr)) | >5.0 mg/l (rat)* |

Skin corrosion/irritation

Acute skin irritation Non-irritant. (rabbit)*

Serious eye damage/irritation

Acute eye irritation Minimal irritant. (rabbit)*

Respiratory or skin sensitization

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Skin sensitization

Non-sensitizer. (mouse)*

*(based on test result of similar product) (Toner)

11.1 Germ cell mutagenicity

Ames test is negative. (Toner) (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 (except Titanium dioxide and Carbon Black) according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, TRGS 905 und (EC) No 1272/2008 Annex VI.

The IARC reevaluated Titanium dioxide and Carbon Black as a Group 2B carcinogen (possibly carcinogenic to humans) as the result of inhalation exposure tests in rats. But, oral/skin tests does not show carcinogenicity (2). The evaluation of Carbon Black is based upon the development of lung tumors 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 tumors.

Moreover, a two years cancer bioassay using a typical toner preparation containing Carbon Black demonstrated no association between toner exposure and tumor development in rats.

In the animal chronic inhalation studies for Titanium dioxide, the lung tumor was observed only in rats. It is estimated that this is attributed to the overload of rat's lung clearance mechanism (overload phenomenon) (3). The inhalation of excessive Titanium dioxide does not occur in normal use of this product. Also, epidemiological studies to date have not revealed any evidence of the relation between occupational exposure to Titanium dioxide and respiratory tract diseases.

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 moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16 mg/m³)

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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.

SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative 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)

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None.

14.4 Packing group

None.

14.5 Environmental hazards

None.

14.6 Special precautions for user

No additional information available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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 (EC) No 850 / 2004 (on persistent organic pollutants, Annex I as amended):

Not listed.

Regulation (EC) No 689 / 2008 (concerning the export and import of dangerous chemicals, Annex I and V as amended):

Not listed.

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

Not listed.

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

Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

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SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, Annex II as amended by Regulation (EU) No 453/2010 with respect to SDSs.

Revision information: Format change
Full text of H statements under sections 3: Not applicable

Abbreviations and acronyms

| | |
|----------------|--|
| ACGIH | American Conference of Governmental Industrial Hygienists (2010) |
| 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) (USA) |
| 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) (USA) |
| OSHA | Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z) |
| PBT | Persistent, Bioaccumulative and Toxic |
| PEL | Permissible Exposure Limits |
| REACH | Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals |
| Proposition 65 | California, Safe Drinking Water and Toxic Enforcement Act of 1986 |
| TRGS 905 | Technische Regeln für Gefahrstoffe (Deutschland) |
| SVHC | Substances of Very High Concern |
| TSCA | Toxic Substances Control Act (USA) |
| TWA | Time Weighted Average |
| UN | United Nations |
| vPvB | very Persistent and very Bioaccumulative |
| WHMIS | Workplace Hazardous Materials Information System (Canada) |

Key literature references and sources for data

- (1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, H. Muhle et al., Fundamental and Applied Toxicology 17.280-299 (1991) Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology 17.300-313 (1991)
- (2) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93

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- (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 "2JZTK-TA-UT-02-EN"; 07/03/2016 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.