

EU-Konformitätserklärung entsprechend EN 17050-1

Wir erklären unter unserer alleinigen Verantwortlichkeit, dass das Produkt, auf welches sich diese Erklärung bezieht, in Übereinstimmung mit den folgenden Spezifikationen ist.

Multifunktionssystem
TA Triumph-Adler P-4027iw MFP, P-4026w MFP, P-4021 MFP
UTAX P-4027iw MFP, P-4026w MFP, P-4021 MFP
Optionen: PF-1100, UG-50
Verbrauchsmaterial: PK-1014

entspricht den folgenden EU Direktiven und Standards.

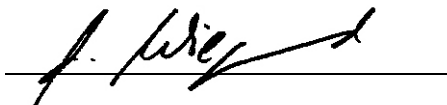
EU Direktive / EU Directives		EU Standards
RE	2014/53/EU	EN 300 328 V2.2.2, EN 301 893 V2.1.1, EN 301 489-1 V2.2.3, EN 301 489-17 V3.2.4, EN 300 440 V2.1.1
		EN 62368-1:2014+A11:2017, EN 60825-1:2014+A11:2021, EN 62311:2020
		EN 55032:2015+A11:2020, EN 55035:2017+A11:2020, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021
ErP	2009/125/EC	EN 50564:2011
RoHS	2011/65/EU (EU) 2015/863	EN IEC 63000:2018
Batterie	(EU) 2023/1542	

Software Version IB-37/38: 1.0.0

Bemerkung: Erstes Jahr der Kennzeichnung mit CE-Markierung: 24
(Jahr der CE-Markierung: 2024)

Firma: TA Triumph-Adler GmbH
Adresse: Deelbögenkamp 4c // Haus 5
22297 Hamburg, Deutschland

Beauftragte Person: Andreas Wiegand
Umwelt- und Energiemanagementbeauftragter



Datum: 9. August 2024

EC DECLARATION OF CONFORMITY according to EN 17050-1

We declare under our sole responsibility that the product to which this declaration relates is in conformity with the following specifications.

Printer
TA Triumph-Adler P-4021DW, P-4021DN
UTAX P-4021DW, P-4021DN
Options PF-1100, UG-50
Consumables: PK-1013

conform the following EU Directives and Standards.

EU Direktive / EU Directives		EU Standards
RE	2014/53/EU	EN 300 328 V2.2.2, EN 301 893 V2.1.1, EN 301 489-1 V2.2.3, EN 301 489-17 V3.2.4, EN 300 440 V2.1.1
		EN 62368-1:2014+A11:2017, EN 60825-1:2014+A11:2021, EN 62311:2020
		EN 55032:2015+A11:2020, EN 55035:2017+A11:2020, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021
ErP	2009/125/EC	EN 50564:2011
RoHS	2011/65/EU (EU) 2015/863	EN IEC 63000:2018
Battery	(EU) 2023/1542	

Software Version IB-37/38: 1.0.0

Note: FIRST YEAR OF THE CE MARKING: 24 (Year of CE marking: 2024)

Company Name: TA Triumph-Adler GmbH
Address: Deelbögenkamp 4c // Haus 5
22297 Hamburg, Germany

Authorized Officer: Andreas Wiegand
Environmental and energy manager representative



Date: August 9, 2024

Subject: OEM Model

Model Name: TA Triumph-Adler / UTAX P-4021DW, P-4021DN

The above-mentioned products are the same products as the Kyocera models "ECOSYS PA4000wx, PA4000x". The differences from "ECOSYS PA4000wx, PA4000x" are only the model names.

So we performed the conformity test to 2014/53/EU, 2009/125/EC and 2011/65/EU using the Kyocera Document Solutions models.

Safety Data Sheet

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

SDS Number: CK8530C-TA-UT-02-EN

Issue date: 03/03/2020

Revision date: 15/10/2020

Effective date: 15/10/2020

Version: 02

Replace version: 01

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

1.1 Product identifier

Product name Cyan Toner for
2508ci

Consumable name CK-8530C

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

<u>Chemical name</u>	<u>CAS-No</u>	<u>[Weight %]</u>
Polyester resin (3 kinds)	Confidential	70-80
Ferrite (Ferrite including Manganese)	66402-68-4	3-8 (as Mn: <1)
Organic pigment	Confidential	3-8
Amorphous Silica	7631-86-9	1-5
Aluminium compound	1344-28-1	< 1

Information of ingredients

(1) Substance, which present a health or environmental hazard within the meaning of CLP:

None.

(2) Substance, which are assigned Community workplace exposure limits:

None.

(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.

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4.2 Most important symptoms and effects, both acute and delayed

Potential health effects and symptoms

Inhalation: Prolonged inhalation of excessive dusts may cause lung damage. Use of this product as intended does not result in prolonged inhalation of excessive toner dusts.

Skin contact: Unlikely to cause skin irritation.

Eye contact: May cause transient eye irritation.

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

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam, powder, CO₂ or dry chemical

Unsuitable extinguishing media

None specified.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide, Carbon monoxide

5.3 Advice for firefighters

Fire-fighting procedures

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

Protection equipment for firefighters

None specified.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

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

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6.4 Reference to other sections

See section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

(Reference data)

US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m³ (Inhalable particles) 3 mg/m³ (Respirable particles)
Manganese inorganic compounds (Ferrite component): 0.1 mg/m³ (Inhalable fraction)
0.02 mg/m³ (Respirable fraction) (as Mn)
Aluminium insoluble compounds: 1 mg/m³ (Respirable fraction)

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)
Manganese compounds (Ferrite component): 5 mg/m³ (Ceiling) (as Mn)
Amorphous silica: 80 mg/m³/ %SiO₂

EU Occupational exposure limits: Directive (EC) 2000/39, (EC) 2006/15 and (EU) 2009/161

Not listed.

8.2 Exposure controls

Appropriate engineering controls

Special ventilator is not required under normal intended use.
Use in a well-ventilated area.

Personal protective equipment

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

Environmental exposure controls

No additional information available.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	Solid (fine powder)
Colour	Cyan
Odour	Odourless
Odour threshold	No data available.
pH	No data available.
Melting point [°C]	100-120 (Toner)
Boiling point	No data available.
Flash point [°C]	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper flammability or explosive limit	No data available.
Lower flammability or explosive limit	No data available.
Vapour pressure	No data available.
Vapour density	No data available.
Relative density [g/m³]	1.2-1.4 (Toner)
Solubility (ies)	Almost insoluble in water.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

9.2 Other information

Dust explosion properties

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

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SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur.

10.4 Conditions to avoid

None specified.

10.5 Incompatible materials

None specified.

10.6 Hazardous decomposition products

Hazardous decomposition products are not to be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Acute toxicity

Oral (LD₅₀) >2000 mg/kg (rat)* (Toner)
>2000 mg/kg (rat)** (Carrier)

Dermal (LD₅₀) No data available. (Toner)
No data available. (Carrier)

Inhalation (LC₅₀(4hr)) >5.10 mg/l (rat)* (Toner)

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory or skin sensitization

Skin sensitization Non-sensitising (mouse)* (Toner)
Non-sensitising** (Carrier)

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11.1 Germ cell mutagenicity

Ames test is negative (Toner)

Ames test is negative** (Carrier)

*(based on test result of similar product)

** (based on test result of constituent materials)

Information of ingredients:

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

Carcinogenicity

Information of ingredients:

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

Reproductive toxicity

Information of ingredients:

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). However, no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

Other information No data available.

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SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bio accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport information

14.1 UN-number

None.

14.2 UN Proper shipping name

None.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.

14.5 Environmental hazards

None.

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14.6 Special precautions for user

No additional information available.

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

Not applicable.

SECTION 15: Regulatory information

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

EU-regulations

Regulation (EC) No 1005/2009 (on substances that deplete the ozone layer, Annex I and II):

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

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SECTION 16: Other information

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

Revision information: Format change

Full text of H statements under sections 3: Not applicable

Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists 2016 TLVs and BEIs (Threshold Limit Values for Chemical Substances and Physical Agents and Biological 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, Authorization and Restriction of Chemicals
STOT	Specific target organ toxicity
SVHC	Substances of Very High Concern
TRGS 905	Technische Regeln für Gefahrstoffe (Deutschland)
TSCA	Toxic Substances Control Act (US)
TWA	Time Weighted Average
UN	United Nations
vPvB	very Persistent and very Bio accumulative
WHMIS	Workplace Hazardous Materials Information System (Canada)

Key literature references and sources for data

- (1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, H. Muhle et al., Fundamental and Applied Toxicology 17.280-299 (1991) Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology 17.300-313 (1991)
- (2) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93
- (3) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"
- (4) The contents are in accordance with Material Safety Data Sheet "CK8530C-TA-UT-02-EN"; 15/10/2020 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.

Safety Data Sheet

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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
2508ci

Consumable name CK-8530K

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

<u>Chemical name</u>	<u>CAS-No</u>	<u>[Weight %]</u>
Polyester resin (3 kinds)	Confidential	80-90
Ferrite (Ferrite including Manganese)	66402-68-4	3-8 (as Mn: <1)
Carbon Black	1333-86-4	3-8
Amorphous Silica	7631-86-9	1-5
Aluminium compound	1344-28-1	< 1

Information of ingredients

(1) Substance, which present a health or environmental hazard within the meaning of CLP:

None.

(2) Substance, which are assigned Community workplace exposure limits:

None.

(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.

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4.2 Most important symptoms and effects, both acute and delayed

Potential health effects and symptoms

Inhalation: Prolonged inhalation of excessive dusts may cause lung damage. Use of this product as intended does not result in prolonged inhalation of excessive toner dusts.

Skin contact: Unlikely to cause skin irritation.

Eye contact: May cause transient eye irritation.

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

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam, powder, CO₂ or dry chemical

Unsuitable extinguishing media

None specified.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide, Carbon monoxide

5.3 Advice for firefighters

Fire-fighting procedures

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

Protection equipment for firefighters

None specified.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

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

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6.4 Reference to other sections

See section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

(Reference data)

US ACGIH Threshold Limit Values (TWA)

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

Carbon Black: 3 mg/m³ (Inhalable fraction)
Aluminium insoluble compounds: 1 mg/m³ (Respirable fraction)

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)
Manganese compounds (Ferrite component): 5 mg/m³ (Ceiling) (as Mn)
Carbon Black: 3.5 mg/m³
Amorphous silica: 80 mg/m³/ %SiO₂

EU Occupational exposure limits: Directive (EC) 2000/39, (EC) 2006/15 and (EU) 2009/161

Not listed.

8.2 Exposure controls

Appropriate engineering controls

Special ventilator is not required under normal intended use.
Use in a well-ventilated area.

Personal protective equipment

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

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8.2 Environmental exposure controls

No additional information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	Solid (fine powder)
Colour	Black
Odour	Odourless
Odour threshold	No data available.
pH	No data available.
Melting point [°C]	100-120 (Toner)
Boiling point	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper flammability or explosive limit	No data available.
Lower flammability or explosive limit	No data available.
Vapour pressure	No data available.
Vapour density	No data available.
Relative density [g/m³]	1.2-1.4 (Toner)
Solubility (ies)	Almost insoluble in water.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

9.2 Other information

Dust explosion properties

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

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

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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)
>2000 mg/kg (rat)** (Carrier)

Dermal (LD₅₀) No data available. (Toner)
No data available. (Carrier)

Inhalation (LC₅₀(4hr)) >5.09 mg/l (rat)* (Toner)

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory or skin sensitization

Skin sensitization Non-sensitising (mouse)* (Toner)
Non-sensitising** (Carrier)

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11.1 Germ cell mutagenicity

Ames test is negative (Toner)

Ames test is negative** (Carrier)

*(based on test result of similar product)

** (based on test result of constituent materials)

Information of ingredients:

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

Carcinogenicity

Information of ingredients:

No carcinogen or potential carcinogen (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 re-evaluated 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 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). However, no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

Other information No data available.

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 Bio accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport information

14.1 UN-number

None.

14.2 UN Proper shipping name

None.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.

14.5 Environmental hazards

None.

Safety Data Sheet

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

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Replace version: 01

14.6 Special precautions for user

No additional information available.

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

Not applicable.

SECTION 15: Regulatory information

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

EU-regulations

Regulation (EC) No 1005/2009 (on substances that deplete the ozone layer, Annex I and II):

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

Safety Data Sheet

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

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Issue date: 03/03/2020

Revision date: 15/10/2020

Effective date: 15/10/2020

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SECTION 16: Other information

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

Revision information: Format change

Full text of H statements under sections 3: Not applicable

Abbreviations and acronyms

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

Key literature references and sources for data

- (1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, H. Muhle et al., Fundamental and Applied Toxicology 17:280-299 (1991) Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology 17:300-313 (1991)
- (2) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93
- (3) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"
- (4) The contents are in accordance with Material Safety Data Sheet "CK8530K-TA-UT-02-EN"; 15/10/2020 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.

Safety Data Sheet

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

SDS Number: CK8530M-TA-UT-02-EN

Issue date: 03/03/2020

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Effective date: 15/10/2020

Version: 02

Replace version: 01

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

1.1 Product identifier

Product name Magenta Toner for
2508ci

Consumable name CK-8530M

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

<u>Chemical name</u>	<u>CAS-No</u>	<u>[Weight %]</u>
Polyester resin (3 kinds)	Confidential	70-80
Ferrite (Ferrite including Manganese)	66402-68-4	3-8 (as Mn: <1)
Organic pigment	Confidential	3-8
Amorphous Silica	7631-86-9	1-5
Aluminium compound	1344-28-1	< 1

Information of ingredients

(1) Substance, which present a health or environmental hazard within the meaning of CLP:

None.

(2) Substance, which are assigned Community workplace exposure limits:

None.

(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.

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4.2 Most important symptoms and effects, both acute and delayed

Potential health effects and symptoms

Inhalation: Prolonged inhalation of excessive dusts may cause lung damage. Use of this product as intended does not result in prolonged inhalation of excessive toner dusts.

Skin contact: Unlikely to cause skin irritation.

Eye contact: May cause transient eye irritation.

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

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam, powder, CO₂ or dry chemical

Unsuitable extinguishing media

None specified.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide, Carbon monoxide

5.3 Advice for firefighters

Fire-fighting procedures

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

Protection equipment for firefighters

None specified.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

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

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6.4 Reference to other sections

See section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

(Reference data)

US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m³ (Inhalable particles) 3 mg/m³ (Respirable particles)
Manganese inorganic compounds (Ferrite component): 0.1 mg/m³ (Inhalable fraction)
0.02 mg/m³ (Respirable fraction) (as Mn)
Aluminium insoluble compounds: 1 mg/m³ (Respirable fraction)

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)
Manganese compounds (Ferrite component): 5 mg/m³ (Ceiling) (as Mn)
Amorphous silica: 80 mg/m³/ %SiO₂

EU Occupational exposure limits: Directive (EC) 2000/39, (EC) 2006/15 and (EU) 2009/161

Not listed.

8.2 Exposure controls

Appropriate engineering controls

Special ventilator is not required under normal intended use.
Use in a well-ventilated area.

Personal protective equipment

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

Environmental exposure controls

No additional information available.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	Solid (fine powder)
Colour	Magenta
Odour	Odourless
Odour threshold	No data available.
pH	No data available.
Melting point [°C]	100-120 (Toner)
Boiling point	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper flammability or explosive limit	No data available.
Lower flammability or explosive limit	No data available.
Vapour pressure	No data available.
Vapour density	No data available.
Relative density [g/m³]	1.2-1.4 (Toner)
Solubility (ies)	Almost insoluble in water.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

9.2 Other information

Dust explosion properties

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

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SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur.

10.4 Conditions to avoid

None specified.

10.5 Incompatible materials

None specified.

10.6 Hazardous decomposition products

Hazardous decomposition products are not to be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Acute toxicity

Oral (LD₅₀) >2000 mg/kg (rat)* (Toner)
>2000 mg/kg (rat)** (Carrier)

Dermal (LD₅₀) No data available. (Toner)
No data available. (Carrier)

Inhalation (LC₅₀(4hr)) >5.08 mg/l (rat)* (Toner)

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory or skin sensitization

Skin sensitization Non-sensitising (mouse)* (Toner)
Non-sensitising** (Carrier)

Safety Data Sheet

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11.1 Germ cell mutagenicity

Ames test is negative (Toner)

Ames test is negative** (Carrier)

*(based on test result of similar product)

** (based on test result of constituent materials)

Information of ingredients:

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

Carcinogenicity

Information of ingredients:

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

Reproductive toxicity

Information of ingredients:

No reproductive 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). However, no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

Other information No data available.

Safety Data Sheet

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

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Issue date: 03/03/2020

Revision date: 15/10/2020

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SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bio accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport information

14.1 UN-number

None.

14.2 UN Proper shipping name

None.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.

14.5 Environmental hazards

None.

Safety Data Sheet

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

SDS Number: CK8530M-TA-UT-02-EN

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Revision date: 15/10/2020

Effective date: 15/10/2020

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Replace version: 01

14.6 Special precautions for user

No additional information available.

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

Not applicable.

SECTION 15: Regulatory information

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

EU-regulations

Regulation (EC) No 1005/2009 (on substances that deplete the ozone layer, Annex I and II):

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

Safety Data Sheet

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

SDS Number: CK8530M-TA-UT-02-EN

Issue date: 03/03/2020

Revision date: 15/10/2020

Effective date: 15/10/2020

Version: 02

Replace version: 01

SECTION 16: Other information

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

Revision information: Format change

Full text of H statements under sections 3: Not applicable

Abbreviations and acronyms

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

Key literature references and sources for data

- (1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, H. Muhle et al., Fundamental and Applied Toxicology 17:280-299 (1991) Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology 17:300-313 (1991)
- (2) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93
- (3) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"
- (4) The contents are in accordance with Material Safety Data Sheet "CK8530M-TA-UT-02-EN"; 15/10/2020 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.

Safety Data Sheet

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

SDS Number: CK8530Y-TA-UT-02-EN

Issue date: 03/03/2020

Revision date: 15/10/2020

Effective date: 15/10/2020

Version: 02

Replace version: 01

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

1.1 Product identifier

Product name Yellow Toner for
2508ci

Consumable name CK-8530Y

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.

Safety Data Sheet

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

SDS Number: CK8530Y-TA-UT-02-EN

Issue date: 03/03/2020

Revision date: 15/10/2020

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Version: 02

Replace version: 01

SECTION 3: Composition/information on ingredients

3.2 Mixtures

<u>Chemical name</u>	<u>CAS-No</u>	<u>[Weight %]</u>
Polyester resin (3 kinds)	Confidential	70-80
Ferrite (Ferrite including Manganese)	66402-68-4	3-8 (as Mn: <1)
Organic pigment	Confidential	3-8
Amorphous Silica	7631-86-9	1-5
Aluminium compound	1344-28-1	< 1

Information of ingredients

(1) Substance, which present a health or environmental hazard within the meaning of CLP:

None.

(2) Substance, which are assigned Community workplace exposure limits:

None.

(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.

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4.2 Most important symptoms and effects, both acute and delayed

Potential health effects and symptoms

Inhalation: Prolonged inhalation of excessive dusts may cause lung damage. Use of this product as intended does not result in prolonged inhalation of excessive toner dusts.

Skin contact: Unlikely to cause skin irritation.

Eye contact: May cause transient eye irritation.

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

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, foam, powder, CO₂ or dry chemical

Unsuitable extinguishing media

None specified.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide, Carbon monoxide

5.3 Advice for firefighters

Fire-fighting procedures

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

Protection equipment for firefighters

None specified.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

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

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

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6.4 Reference to other sections

See section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

(Reference data)

US ACGIH Threshold Limit Values (TWA)

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

Manganese inorganic compounds (Ferrite component): 0.1 mg/m³ (Inhalable fraction)
0.02 mg/m³ (Respirable fraction) (as Mn)

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

US OSHA PEL (TWA)

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

Manganese compounds (Ferrite component): 5 mg/m³ (Ceiling) (as Mn)

Amorphous silica: 80 mg/m³/‰SiO₂

EU Occupational exposure limits: Directive (EC) 2000/39, (EC) 2006/15 and (EU) 2009/161

Not listed.

8.2 Exposure controls

Appropriate engineering controls

Special ventilator is not required under normal intended use.
Use in a well-ventilated area.

Personal protective equipment

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

Environmental exposure controls

No additional information available.

Safety Data Sheet

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Effective date: 15/10/2020

Version: 02

Replace version: 01

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	Solid (fine powder)
Colour	Yellow
Odour	Odourless
Odour threshold	No data available.
pH	No data available.
Melting point [°C]	100-120 (Toner)
Boiling point	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper flammability or explosive limit	No data available.
Lower flammability or explosive limit	No data available.
Vapour pressure	No data available.
Vapour density	No data available.
Relative density [g/m³]	1.2-1.4 (Toner)
Solubility (ies)	Almost insoluble in water.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

9.2 Other information

Dust explosion properties

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

Safety Data Sheet

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

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Effective date: 15/10/2020

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Replace version: 01

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)
>2000 mg/kg (rat)** (Carrier)

Dermal (LD₅₀) No data available. (Toner)
No data available. (Carrier)

Inhalation (LC₅₀(4hr)) >5.10 mg/l (rat)* (Toner)

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory or skin sensitization

Skin sensitization Non-sensitising (mouse)* (Toner)
Non-sensitising** (Carrier)

Safety Data Sheet

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11.1 Germ cell mutagenicity

Ames test is negative (Toner)

Ames test is negative** (Carrier)

*(based on test result of similar product)

** (based on test result of constituent materials)

Information of ingredients:

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

Carcinogenicity

Information of ingredients:

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

Reproductive toxicity

Information of ingredients:

No reproductive 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). However, no pulmonary change was reported in the lowest (1mg/m³) exposure group, the most relevant level to potential human exposures.

Other information No data available.

Safety Data Sheet

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

SDS Number: CK8530Y-TA-UT-02-EN

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Revision date: 15/10/2020

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SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bio accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport information

14.1 UN-number

None.

14.2 UN Proper shipping name

None.

14.3 Transport hazard class(es)

None.

14.4 Packing group

None.

14.5 Environmental hazards

None.

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14.6 Special precautions for user

No additional information available.

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

Not applicable.

SECTION 15: Regulatory information

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

EU-regulations

Regulation (EC) No 1005/2009 (on substances that deplete the ozone layer, Annex I and II):

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

US-regulations

All ingredients in this product comply with order under TSCA.

Canada regulations

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

15.2 Chemical Safety Assessment

No data available.

Safety Data Sheet

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

SDS Number: CK8530Y-TA-UT-02-EN

Issue date: 03/03/2020

Revision date: 15/10/2020

Effective date: 15/10/2020

Version: 02

Replace version: 01

SECTION 16: Other information

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

Revision information: Format change

Full text of H statements under sections 3: Not applicable

Abbreviations and acronyms

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

Key literature references and sources for data

- (1) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, H. Muhle et al., Fundamental and Applied Toxicology 17:280-299 (1991) Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats, B. Bellmann, Fundamental and Applied Toxicology 17:300-313 (1991)
- (2) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93
- (3) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"
- (4) The contents are in accordance with Material Safety Data Sheet "CK8530Y-TA-UT-02-EN"; 15/10/2020 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.

Safety Data Sheet

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

SDS Number: PK1013-TA-UT-01-EN

Issue date: 08/04/2024

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Effective date: 08/04/2024

Version: 01

Replace version: -

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

1.1 Product identifier

Product name P-4021DW, P-4021DN

Consumable name PK-1013

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

<u>Chemical name</u>	<u>CAS No</u>	<u>Weight%</u>	<u>Classification (CLP)</u>
Polyester resin (2 kinds)	Confidential	45-55	None
Magnetite	Confidential	35-45	None
Styrene acrylate copolymer	Confidential	1-5	None
Amorphous silica	7631-86-9	< 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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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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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 compounds: 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.

Safety Data Sheet

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

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Issue date: 08/04/2024

Revision date: -

Effective date: 08/04/2024

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Replace version: -

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]	140-150 (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]	1.5-2.0 (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.

Safety Data Sheet

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

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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)) > 5.16 mg/l (rat)* (Toner).

Skin corrosion/irritation

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

Serious eye damage/irritation

Acute eye irritation Mild 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).

Information of ingredients:

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

Safety Data Sheet

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

SDS Number: PK1013-TA-UT-01-EN

Issue date: 08/04/2024

Revision date: -

Effective date: 08/04/2024

Version: 01

Replace version: -

11.1 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.

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.

Safety Data Sheet

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

SDS Number: PK1013-TA-UT-01-EN

Issue date: 08/04/2024

Revision date: -

Effective date: 08/04/2024

Version: 01

Replace version: -

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.

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.

Safety Data Sheet

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

SDS Number: PK1013-TA-UT-01-EN

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Effective date: 08/04/2024

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Replace version: -

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.

Safety Data Sheet

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

SDS Number: PK1013-TA-UT-01-EN

Issue date: 08/04/2024

Revision date: -

Effective date: 08/04/2024

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
DFG	Deutsche Forschungsgemeinschaft
EPA	Environmental Protection Agency (Integrated Risk Information System) (US)
IARC	International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks to Humans)
MAK	Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)
NTP	National Toxicology Program (Report on Carcinogens) (US)
OSHA	Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)
PBT	Persistent, Bio accumulative and Toxic
PEL	Permissible Exposure Limits
Proposition 65	California, Safe Drinking Water and Toxic Enforcement Act of 1986
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, 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 "PK1013-TA-UT-01-EN"; 08/04/2024 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.

Safety Data Sheet

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

SDS Number: PK1014-TA-UT-01-EN

Issue date: 08/04/2024

Revision date: -

Effective date: 08/04/2024

Version: 01

Replace version: -

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

1.1 Product identifier

Product name P-4027iw MFP, P-4026w MFP, P-4021 MFP

Consumable name PK-1014

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.

Safety Data Sheet

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

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

<u>Chemical name</u>	<u>CAS No</u>	<u>Weight%</u>	<u>Classification (CLP)</u>
Polyester resin (2 kinds)	Confidential	45-55	None
Magnetite	Confidential	35-45	None
Styrene acrylate copolymer	Confidential	1-5	None
Amorphous silica	7631-86-9	< 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.

Safety Data Sheet

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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 compounds: 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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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]	140-150 (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]	1.5-2.0 (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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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)) > 5.16 mg/l (rat)* (Toner).

Skin corrosion/irritation

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

Serious eye damage/irritation

Acute eye irritation Mild 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).

Information of ingredients:

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

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

SDS Number: PK1014-TA-UT-01-EN

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Version: 01

Replace version: -

11.1 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.

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.

Safety Data Sheet

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

SDS Number: PK1014-TA-UT-01-EN

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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.

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.

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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.

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) 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
DFG	Deutsche Forschungsgemeinschaft
EPA	Environmental Protection Agency (Integrated Risk Information System) (US)
IARC	International Agency for Research on Cancer (IARC Monographs on the Evaluations of Carcinogenic Risks to Humans)
MAK	Maximale Arbeitsplatzkonzentration der Deutschen Forschungsgesellschaft (2011)
NTP	National Toxicology Program (Report on Carcinogens) (US)
OSHA	Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)
PBT	Persistent, Bio accumulative and Toxic
PEL	Permissible Exposure Limits
Proposition 65	California, Safe Drinking Water and Toxic Enforcement Act of 1986
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, 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 "PK1014-TA-UT-01-EN"; 08/04/2024 of the KYOCERA Document Solutions Inc., 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan.

Objekt: OEM Modell

**Modellname: TA Triumph-Adler / UTAX P-4027iw MFP, P-4026w MFP,
P-4021 MFP**

Die oben erwähnten Produkte entsprechen den Kyocera Modellen "ECOSYS MA4000wifx, MA4000fx, MA4000x". Die Unterschiede zu den Kyocera Modellen "ECOSYS MA4000wifx, MA4000fx, MA4000x" sind nur die Modellnamen.

Die Konformitätsprüfungen nach 2014/53/EU, 2009/125/EC und 2011/65/EU wurde unter Verwendung des Kyocera Document Solutions Modell durchgeführt.

EC DECLARATION OF CONFORMITY according to EN 17050-1

We declare under our sole responsibility that the product to which this declaration relates is in conformity with the following specifications.

Multifunction Printer
TA Triumph-Adler P-4027iw MFP, P-4026w MFP, P-4021 MFP
UTAX P-4027iw MFP, P-4026w MFP, P-4021 MFP
Options PF-1100, UG-50
Consumables: PK-1014

conform the following EU Directives and Standards.

EU Direktive / EU Directives		EU Standards
RE	2014/53/EU	EN 300 328 V2.2.2, EN 301 893 V2.1.1, EN 301 489-1 V2.2.3, EN 301 489-17 V3.2.4, EN 300 440 V2.1.1
		EN 62368-1:2014+A11:2017, EN 60825-1:2014+A11:2021, EN 62311:2020
		EN 55032:2015+A11:2020, EN 55035:2017+A11:2020, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021
ErP	2009/125/EC	EN 50564:2011
RoHS	2011/65/EU (EU) 2015/863	EN IEC 63000:2018
Battery	(EU) 2023/1542	

Software Version IB-37/38: 1.0.0

Note: FIRST YEAR OF THE CE MARKING: 24 (Year of CE marking: 2024)

Company Name: TA Triumph-Adler GmbH
Address: Deelbögenkamp 4c // Haus 5
22297 Hamburg, Germany

Authorized Officer: Andreas Wiegand
Environmental and energy manager representative



Date: August 9, 2024

Subject: OEM Model

**Model Name: TA Triumph-Adler / UTAX P-4027iw MFP, P-4026w MFP,
P-4021 MFP**

The above-mentioned products are the same products as the Kyocera models "ECOSYS MA4000wifx, MA4000fx, MA4000x". The differences from "ECOSYS MA4000wifx, MA4000fx, MA4000x" are only the model names.

So we performed the conformity test to 2014/53/EU, 2009/125/EC and 2011/65/EU using the Kyocera Document Solutions models.

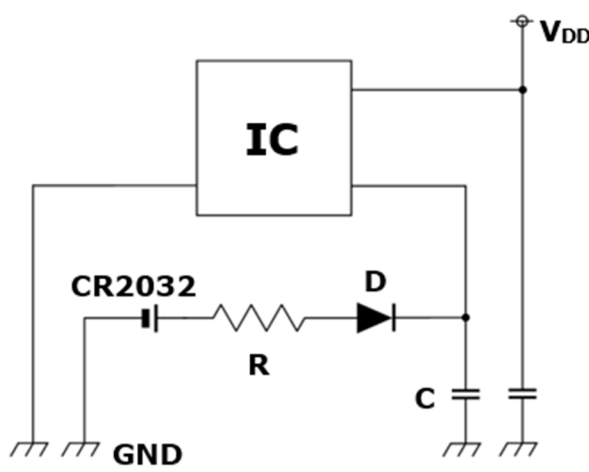
Technical Documentation According to (EU) 2023/1542

Multifunction Printer
TA Triumph-Adler P-4027iw MFP, P-4026w MFP, P-4021 MFP
UTAX P-4027iw MFP, P-4026w MFP, P-4021 MFP
Usage Battery: CR2032/VS1N
Manufacture: TA Triumph-Adler GmbH

1. General description and intended usage

The product use the battery shown below. The battery is used to operate the Real Time Clock IC.

2. Specifications and Conformance

Battery Type	Manganese dioxide primary Lithium battery
Model Number	CR2032/VS1N
Battery Category	Portable battery
Nominal voltage / capacity	3V, 225mAh
Battery weight	2.8g
Supplier	Panasonic Energy Co., Ltd.
Design / Drawing	Refer to the Fig. 1 Dimension drawing of the battery. Refer to the Conformity assessment report No. R24001 for the internal configuration of the battery.
Circuit diagram	<p>The power is supplied from the battery when the power supply V_{DD} of the IC becomes 0 V.</p>  <p>The diagram illustrates a backup power circuit for an IC. A CR2032 battery is connected to the GND pin of the IC. The positive terminal of the battery is connected to a resistor R, which is then connected to a diode D. The diode D is oriented such that its cathode is towards the resistor and its anode is connected to the VDD pin of the IC. A capacitor C is connected between the VDD pin and GND. This configuration ensures that the IC is powered by the battery when the main power supply VDD is absent or drops to 0V.</p>
A specimen of the label required in accordance with Article 13: This requirement will be mandatory from 18 August 2026.	
Conformity of the requirements of Article 6: Refer to the Conformity assessment report No. C240015 of the battery supplier.	
Conformity of the requirements of Article 9, 10, 12 and 14: Refer to the Conformity assessment report No. R24001 of the battery supplier.	
Conformity assessment report: Refer to the Conformity assessment report No. C240015 and No. R24001 of the battery supplier.	

NOTE: Product marked with the Crossed-out Wheeled Bin Symbol includes the battery that complies with the Regulation (EU) 2023/1542 of the European Parliament and the Council of 12 July 2023 concerning batteries and waste batteries, amending Directive 2008/98/EC and Regulation (EU) 2019/1020 and repealing Directive 2006/66/ECs.

Do not remove and dispose of the batteries included in this machine.

3. Safety Information

Refer to the PROCUCT SAFETY DATA SHEET of the battery supplier.

INSULATOR (YELLOW)
RHT-7 (黄)

DATE CODE
(印字表示)

20.1 \pm 0.2

4.0 \pm 0.1

0.2 \pm 0.5

0.2 \pm 0.5

1.8 \pm 0.1
(4.8 \pm 0.5)

0.75 \pm 0.1

10.17 \pm 0.5

4.0 \pm 0.4

0.2 \pm 0.05

3.85 \pm 0.5

0.2 \pm 0.05

TIN PLATING
(Sn \times 7 \pm)

PRODUCT NO.	CR-2032/V51N	SCALE 4:1
DRAWING NO.	PMVC1Z	REV. PC-0
		  1ST ANGLE

NOTE (注記)

1. TAB WELDING STRENGTH OVER 9.6N (標高調整は19.6N以上)

2. TAB MATERIAL: STAINLESS STEEL WITH TIN PLATING (注) 素材: ステンレス鋼 鉛(50μm)メッキ

3. (1) : REFERENCE DIMENSION AND ANGLE (この寸法は 図解による)