

SAFETY DATA SHEET

Toner Powder (Cartridge) for
B710 series
B720 series
B730 series

OKI DATA CORPORATION

NOTE:-A safety data sheet is not required for this product under Article 31 of REACH. This safety data sheet is provided on a voluntary basis

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

1.1 Product identifier

Product name: Black toner powder (cartridge) for
B710 series
B720 series
B730 series

Product description: Black Toner

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

Material uses: For electrophotographic printing systems

1.3 Details of the supplier of the safety data sheet

Manufacturer: OKI Data Corporation
3-1 Futaba-cho, Takasaki-shi, Gunma. 370-8585 Japan
Tel: +81 27-328-6366 Fax: +81-27-328-6398

Supplier: OKI Europe Limited
Blays House, Wick Road, Egham, Surrey, TW20 0HJ, UK
Tel: +44 (0) 208 219 2190 Fax: +44 (0) 208 219 2199
e-mail:SDSQuestions@okieurope.com

1.4 Emergency telephone number

OKI Europe Limited: +44 (0) 208 219 2190
(Supported 09:00 to 17:00 UK Time, Monday to Friday
except Bank Holidays)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

This product is not classified as hazardous according to Regulation (EC) No 1272/2008. Safety Data Sheets do not have to be provided for non-hazardous products, however this information is provided as a courtesy to our customers in this format.

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Not classified

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard pictogram(s)	Not required
Signal word(s)	Not required
Hazard statement(s)	Not required
Precautionary statement(s)	Not required

2.3 Other hazards

None

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Not applicable

3.2 Mixtures

CAS Number	Name	Ingredients (% by wt.)
1317-61-9	Magnetite	40 - 50%
Undisclosed	Polyester	40 - 50%
Undisclosed	Ethylene/propylene copolymer	< 10%
Undisclosed	Styrene/acrylate resin and olefin resin	< 10%
7631-86-9	Amorphous silica	< 10%
13463-67-7	Titanium oxide	< 1%

SECTION 4: First aid measures**4.1 Description of first aid measures**

Inhalation	Remove from exposure and provide fresh air. Rinse mouth with water.
Skin Contact	Wash with soap and water.
Eye Contact	Flush with a large amount of water for at least 15 minutes. Seek medical advice.
Ingestion	Rinse mouth with water. Give several glasses of water to drink and seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No information available. No specific symptoms are predicted.

4.3 Indication of any immediate medical attention and special treatment needed

No special treatment needed. Treatment based on judgment of the doctor in response to symptoms of the patient.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray, Foam, Dry chemicals. When in a machine, treat as an electrical fire.

Unsuitable extinguishing media: No information available.

5.2 Special hazards arising from the substance or mixture

None known.

5.3 Advice for firefighters

Immediately remove flammable materials from the surroundings. Fight fire from the upwind position. Remove movable containers to a safe place immediately in case of fire in the vicinity. Do not allow non-authorized personnel to access around the fire. Extinguish quickly and completely using specified fire extinguisher. Wear heat-resistant protective clothing, protective gloves and respiratory protection when engaged in fire-fighting.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation. If you spill a large volume of toner, wear proper protective equipment and collect them in closed container.

6.2 Environmental precautions

Prevent from entering soil, waterways and ground water.

6.3 Methods and materials for containment and cleaning up

Shut off ignition sources. For small spills, sweep up or soak up with damp cloth. (It may catch fire by electric sparks inside the vacuum cleaner and cause explosion)

6.4 Reference for safe handling

See Sections 8 and 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures: None required when used as intended in printing device. For use other than normal customer operating procedures (such as in bulk toner processing facilities), local exhaust ventilation may be required.

Notice: Do not incinerate toner or toner cartridge. Do not disassemble a cartridge.

Safe handling advice: Do not incinerate toner or toner cartridge. Do not disassemble a cartridge.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures: None

Conditions for safe storage: Keep in cool, dry and well-ventilated area. Keep out of reach of children

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Occupational exposure limits

No European Union occupational exposure limits.
ACGIH TLV (2016): 10 mg/m³ (Total)
3 mg/m³ (Respirable)

8.1.2 Biological Limit Value:

None for the product.

8.1.3 PNECs and DNELs:

None available for the product.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

None for the product.

Individual protection measures, such as personal protective equipment (PPE)

None required when used as intended in printing device. Recommended for use in situations other than normal end user operation (such as in bulk toner processing facilities), protective glove, goggles and respirators may be required.

Eye/face protection

Glasses with side protection or goggles. Wear appropriate protective eyeglasses or chemical safety goggles, EN166: 2002 as minimum standard.

Skin protection (Hand protection/Other)

Protective gloves. EN374 as minimum standard. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions.

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Respiratory protection

Use approved respirators, EN149 as minimum standard. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Skin and body protection

Protective boots and apron.

Hygiene measures

Wash hands thoroughly after handling.

8.2.3 Environmental Exposure Controls

Follow best practice for site management and disposal of waste.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance:	Powder
Colour:	Black
Odour:	Faint odour
Odour threshold(ppm):	No data available
pH(Value):	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point (°C)	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density (Air=1)	No data available
Relative Density	No data available
Solubility(ies)	Insoluble
Partition coefficient (n-Octanol/water)	No data available
Auto ignition temperature	No data available
Decomposition temperature (°C)	No data available
Viscosity (mPa. s)	No data available
Explosive properties	No data available
Oxidising properties	No data available

9.2 Other information

No other information.

SECTION 10: Stability and reactivity

10.1 Reactivity:	None
10.2 Chemical stability:	Stable
10.3 Possibility of hazardous reactions:	None
10.4 Conditions to avoid:	None
10.5 Incompatible materials to avoid:	None
10.6 Hazardous decomposition products:	No data available

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SECTION 11: Toxicological information**11.1 Information on toxicological effects**

The toxicity data noted below is based on test results of this materials or similar materials.

Acute toxicity

Ingestion LD50(rat): >5000 mg/kg (practically non-toxic)

Dermal LD50(rabbit): >5000 mg/kg (practically non-toxic)

Skin corrosion/irritation Not an irritant (rabbit)

Serious eye damage/irritation Not an irritant (rabbit)

Respiratory or skin sensitisation Not a skin sensitiser (guinea-pig)

Mutagenicity Ames Assay: Negative

Carcinogenicity Titanium dioxide is classified as Group 2B by IARC. In animal chronic inhalation studies, rats only showed the incidence of lung tumors which is attributed to excessive burden on rat lung clearance mechanism (overloading). It is assumed that a designated use of this product should not cause such excessive burden on lung clearance mechanism. Epidemiological studies provide no clear evidence of elevated risks of lung tumors mortality or morbidity among the workers exposed to TiO₂ dust. All other ingredients are not classified as carcinogens "ref.1".

Reproductive toxicity Not classified as Reproductive and Development chemicals ref.2.

STOT - single exposure No data available.

STOT - repeated exposure Results obtained from a Xerox sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1mg/m³) exposure level (i.e. the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25% of the animals at the middle (4mg/m³) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m³) exposure level. These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged period. This study was conducted using a special test toner to comply with EPA testing protocol. The test toner was ten times more respirable than commercially available Xerox toner, and would not be functionally suitable for Xerox equipment.

Aspiration hazard Not applicable

Target Organs: No data available.

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Information on the likely routes of exposure:

Inhalation, Skin, Eye, Ingestion

Potential Health Effects

Inhalation

Acute (Immediate):

No data available

Chronic (Delayed):

No data available

Skin

Acute (Immediate):

No data available

Chronic (Delayed):

No data available

Eye

Acute (Immediate):

No data available

Chronic (Delayed):

No data available

Ingestion

Acute (Immediate):

No data available

Chronic (Delayed):

No data available

Symptoms related to the physical, chemical and toxicological characteristics:

No data available

SECTION 12: Ecological information

12.1 Toxicity

The toxicity data noted below is based on test results of this materials or similar materials.

Acute Toxicity

Fish 96hr LC50 (*Oryzias latipes*): > 500 mg/L (practically non-toxic)

Daphnia 48hr EC50 (*Daphnia magna*): No data available

Algae 72hr EC50 (*Selenastrum capricornutum*): No data available

12.2 Persistence and degradability:

No data available

12.3 Bioaccumulative potential:

No data available

12.4 Mobility in soil:

No data available

12.6 Other adverse effects:

No data available

SECTION 13: Disposal considerations

13.1 Disposal methods

13.1.1 Residual wastes

Dispose of in accordance with national and local regulations.

13.1.2 Contaminated containers and packaging

Dispose of in accordance with national and local regulations.

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SECTION 14: Transport information

Transport in accordance with national, and local regulations.

- 14.1 UN number:** Not regulated
- 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:** None
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:**
Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the product EU Regulations

This safety datasheet complies with the requirements of EC Regulations 1907/2006 (REACH), 1272/2008 (CLP/GHS) & 453/2010.

- Authorisations:** Not applicable
- Restrictions on use:** Not applicable

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

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SECTION 16: Other information

Methods of evaluation:

The mixture was classified using data available for the mixture and data available for the neat substances with the application of relevant concentration limits, in accordance with Regulation (EC) No 1272/2008 [CLP/GHS].

References:

ECHA Guidance on the compilation of safety data sheets. Version 2.1. February 2014.
GESTIS-database on hazardous substances
Regulation (EC) No. 1907/2006 of The European Parliament and of The Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

1.
 - IARC Monographs on the Evaluation Carcinogenic Risks to Humans (WHO. International Agency for Research on Cancer)
 - National Toxicology Program(NTP) Report on Carcinogens (NTP)
 - TLVs and BEIs (American Conference of Governmental Industrial Hygienists)
 - REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 ANNEX VI on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006)
 - Journal of Occupational Health (Japan Society for Occupational Health)
2.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Abbreviations:

DNEL: Derived no-effect level
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
vPvB: Very persistent and very bioaccumulative.

CAS Registry Number(R) is a Registered Trademark of the American Chemical Society.

The data mentioned above corresponds to our present state of knowledge and experience, but no warranty is made. Users should consider these data only as a supplement to other information and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of the materials and safety and health of employees and customers.