

SAFETY DATA SHEET

Toner Powder (Cartridge) for

B410/430/440 series
MB460/470/480 series
ES4140/4180 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

SAFETY DATA SHEET**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Product name: Black toner powder (cartridge) for
B410/430/440 series
MB460/470/480 series
ES4140/4180 series
(Toner powder name: TN12)

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**

Product definition: Mixture

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

Not classified.

2.2 Label elements None

2.3 Other hazards No hazard expected under normal conditions of use

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SECTION 3: Composition/information on ingredients

Substance/mixture: Mixture

Chemical name	Weight %	CAS-No.	EC-No.	Classification (Reg. 1272/2008)	REACH Registration number
Polymer	70 – 90	292629-36-8	-	None	
Wax	5 – 15	Proprietary	Listed	None	
Carbon black	1 – 5	1333-86-4	Present	None	01-2119384822-32-0065
Additive	1 – 5	Proprietary	Listed	None	

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: For external use only. When symptoms persist or in all cases of doubt seek medical advice. Show this safety data sheet to the doctor in attendance.

Eye contact: Immediately flush eyes with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

Inhalation: Move to fresh air.

Skin contact: Wash skin with soap and water.

Ingestion: Rinse mouth with water and afterwards drink plenty of water or milk.

4.2 Most important symptoms and effects, both acute and delayed

Acute toxicity

Eye contact: No known effect.

Inhalation: No known effect.

Skin contact: No known effect.

Ingestion: No known effect.

Chronic effects

Overexposure may cause Mild respiratory irritation similar to nuisance dust.

4.3 Indication of any immediate medical attention and special treatment needed

Protection of first-aiders: No special protective equipment required.

Notes to physician: Treat symptomatically.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use water spray or fog; do not use straight streams, Foam

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Fine dust dispersed in the air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

5.3 Advice for firefighters

In the event of fire and/or explosion do not breathe fumes. Wear fire/flare resistance/retardant clothing. Use self-contained pressure-demand breathing apparatus if needed to prevent exposure to smoke or airborne toxins.

Wear self-contained breathing apparatus and protective suit.

Other Information

Flammable properties	Not flammable. Will not readily ignite
Flash point	Not applicable
Hazardous combustion products	Hazardous decomposition products due to incomplete combustion, Carbon oxides Nitrogen oxides (NOx)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing dust

6.2 Environmental precautions

No special environmental precautions required

6.3 Methods and materials for containment and cleaning up

Avoid dust formation
Sweep up and shovel into suitable containers for disposal

6.4 Reference to other sections

None

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling practices and processes should be consistent with safe handling of combustible dust
Prevent dust cloud
In case of insufficient ventilation, wear suitable respiratory equipment
Keep away from open flames, hot surfaces and sources of ignition
Take precautionary measures against static discharges

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well ventilated place
Store at room temperature

7.3 Specific end use(s)

For electrophotographic printing systems

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Xerox Exposure Limit:	2.5 mg/m ³ (total dust)
Xerox Exposure Limit:	0.4 mg/m ³ (respirable dust)

8.2 Exposure controls

Engineering measures: Engineering controls should be used to maintain airborne dust levels below established exposure limits

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

Respiratory protection:	No special personal protective equipment
Eye/face protection:	No special personal protective equipment
Skin and body protection:	No special personal protective equipment
Hand protection:	No special personal protective equipment

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

Appearance:	Powder
Physical State:	Solid
Colour:	Black
Odour:	Faint
Odour threshold:	Not applicable
pH:	Not applicable
Flash point:	Not applicable
Boiling point/range:	Not applicable
Softening point:	49 – 60 °C / 120 - 140 °F
Auto ignition temperature:	Not applicable
Flammability limits in air:	Not applicable
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Water Solubility:	Negligible
Viscosity:	Not applicable
Partition coefficient:	Not applicable
Evaporation rate:	Not applicable
Melting point/range:	Not determined
Freezing point:	Not applicable
Decomposition temperature:	Not determined
Specific gravity:	~ 1

9.2 Other information

Explosive properties:	(Method: -ASTM E 1226 standard test method for explosibility of dust clouds)
Maximum rate of explosion pressure rise (KSt):	282 – 304 m ³ bars/sec
Maximum explosion pressure (Pmax):	7.9 – 9.0 bar
Maximum ignition energy:	<3 millijoules

SECTION 10: Stability and reactivity

10.1 Reactivity:	No dangerous reaction known under conditions of normal use
10.2 Chemical stability:	Stable under normal conditions.
10.3 Possibility of hazardous reactions:	
Hazardous reactions:	None under normal processing
Hazardous polymerisation:	Hazardous polymerisation does not occur.
10.4 Conditions to avoid:	Heat, flames and sparks. Take precautionary measures against static discharges. Prevent dust cloud.
10.5 Incompatible materials to avoid:	None
10.6 Hazardous decomposition products:	None under normal use

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SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Product information:**

Irritation:	No skin irritation, No eye irritation
LD50 Oral:	> 5 g/kg (rat)
LD50 Dermal:	> 5 g/kg (rabbit)
LC50 Inhalation:	> 5 mg/L (rat, 4hr)

Component information: No information available

Chronic toxicity**Product information:**

Chronic effects:	No known effects under normal use conditions
Carcinogenicity:	Not classified as a human carcinogen

Component information: No information available

Other toxic effects**Product information:**

Sensitisation:	No sensitisation responses were observed
Mutagenic effects:	Not mutagenic in AMES test
Developmental toxicity:	None known
Teratogenicity:	None known
Target organ effects:	None known
Other adverse effects:	None known
Aspiration hazard:	Not applicable

SECTION 12: Ecological information**12.1 Toxicity**

Acute Aquatic Toxicity:	On available data, substance is not harmful to aquatic life
Chronic Aquatic Toxicity:	On available data, substance is not harmful to aquatic life

12.2 Persistence and degradability: No information available

12.3 Bioaccumulative potential: No information available

12.4 Mobility in soil: No information available

12.5 Results of PBT and vPvB assessment: Not a PBT according to REACH Annex XIII

12.6 Other adverse effects: Presents little or no hazard to the environment

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Methods of disposal:

No special precautions are needed in handling this material
Landfill is the recommended method of disposal
If incineration is to be carried out, care must be exercised to prevent dust clouds forming

EWC Waste Disposal Number: 08 03 18

Packaging**Methods of disposal:**

No special precautions are needed in handling this material.

SECTION 14: Transport information

- 14.1 UN number:** Not regulated
- 14.2 UN proper shipping name:** Not regulated
- 14.3 Transport hazard class(es):** Not classified
- 14.4 Packing group:** Not applicable
- 14.5 Environmental hazards:** Presents little or no hazard to the environment
- 14.6 Special precautions for user:** No special precautions are needed in handling this material
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable

SECTION 15: Regulatory information

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

According to present data no classification and labelling is required according to Regulation (EC) No. 1272/2008

15.2 Chemical Safety Assessment: Not applicable

SECTION 16: Other information

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008 as amended.

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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