

SAFETY DATA SHEET

Toner Powder (Cartridge) for

B401/B411/B431 Series

B412/B432/B512 Series

B820/B840 Series

MB441/MB451/MB451w Series

MB461/MB471/MB491 Series

MB472/MB492/MB562 Series

ES4131 Series

ES4132/ES5112 Series

ES4161/ES4191 Series

ES4192/ES5162 Series

ES8140 Series

KS4132 Series

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1. Identification of the substance or mixture and of the supplier

GHS Product identifier : Black toner powder (cartridge) for
B401/B411/B431 Series
B412/B432/B512 Series
B820/B840 Series
MB441/MB451/MB451w Series
MB461/MB471/MB491 Series
MB472/MB492/MB562 Series
ES4131 Series
ES4132/ES5112 Series
ES4161/ES4191 Series
ES4192/ES5162 Series
ES8140 Series
KS4132 Series
(Toner powder name: ODT-1)

Recommended use of the chemical and restrictions on use

Recommended use : Not available

Recommended restrictions : Not known

Manufacturer : Oki Electric Industry Co., Ltd.
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4. First-aid measures

Description of first aid measures

- Inhalation** : Remove person to fresh air and keep comfortable for breathing.
- Skin Contact** : Gently wash with plenty of soap and water.
- Eye contact** : Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
- Ingestion** : Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.
- Personal Protection for First-aid Responders** : No data available.

Most important symptoms and effects, both acute and delayed

- Symptoms** : No data available.
- Hazards** : No data available.

Indication of immediate medical attention and special treatment needed

- Treatment** : Get medical attention if symptoms occur.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media** : Water spray, powder
- Unsuitable extinguishing media** : No data available.
- Special hazards arising from the substance or mixture** : May produce irritating or toxic gases in a fire.

Special protective equipment and precautions for fire-fighters

- Special fire-fighting procedures** : Keep away from sources of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible.
- Special protective equipment for fire-fighters** : Use goggles in combination with dust mask, and other protections as appropriate to situation.

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6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures** : Use mask, goggles and protective gloves.
Large spills: Remove person to safety. Ensure adequate ventilation.
Treat from upwind position.
- Accidental release measures** : No data available.
- Methods and material for containment and cleaning up** : Prevent dispersion of dust.
Sweep or vacuum by dust-explosion-proof type cleaner.
- Environmental Precautions** : Do not discharge into the drains, surface waters or ground water directly.

7. Handling and storage

Handling

- Technical measures** : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
- Local/Total ventilation** : Use local exhaust ventilation, in case of generation of dust.
- Safe handling advice** : Avoid inhalation of fine dust. Use an adequate ventilation.
Wash thoroughly after handling. If needed, use personal protective equipment as required. Prevent generation of dust.
This material may cause risk of dust explosion.
- Contact avoidance measures** : No data available.

Storage

- Safe storage conditions** : Keep container tightly closed. Protect from sun.
Store in a well-ventilated room (under 40°C).
- Safe packaging materials** : No data available.

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8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Carbon black	TWA	3 mg/m ³	Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended (12 2011)
Silica - Respirable dust	TWA	2 mg/m ³	Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended (12 2019)
Silica	TWA	2 mg/m ³	Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended (12 2019)
Silica - Inhalable dust	TWA	10 mg/m ³	Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended (12 2019)
Tin oxide - as Sn	TWA	2 mg/m ³	Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended (12 2011)
Methyl methacrylate	TWA	50 ppm 208 mg/m ³	Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended (12 2019)
Methyl methacrylate	STEL	100 ppm 416 mg/m ³	Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended (12 2019)
Carbon black - Inhalable fraction	TWA	3 mg/m ³	US. ACGIH Threshold Limit Values, as amended (12 2010)
Carbon black - Respirable particles	TWA	3 mg/m ³	US. ACGIH Threshold Limit Values, as amended (01 2021)
Carbon black - Inhalable particles	TWA	10 mg/m ³	US. ACGIH Threshold Limit Values, as amended (01 2021)
Carbon black - Fume - as Cu	TWA	0.2 mg/m ³	US. ACGIH Threshold Limit Values, as amended (03 2014)
Carbon black - Dust and mist - as Cu	TWA	1 mg/m ³	US. ACGIH Threshold Limit Values, as amended (03 2014)

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Tin oxide - Inhalable fraction - as Sn	TWA	2 mg/m ³	US. ACGIH Threshold Limit Values, as amended (03 2019)
Methyl methacrylate	TWA	50 ppm	US. ACGIH Threshold Limit Values, as amended (2008)
Methyl methacrylate	STEL	100 ppm	US. ACGIH Threshold Limit Values, as amended (2008)

Appropriate Engineering Controls : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use local exhaust ventilation, in case of generation of dust. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use an adequate ventilation.

Individual protection measures, such as personal protective equipment

- Eye/face protection** : Safety glasses with side shield (Safety goggles or Face shield)
- Hand Protection** : Material: Rubber gloves
- Other** : Full-body suit
- Respiratory Protection** : Use dust mask, as appropriate to situation.
- Hygiene measures** : No data available.

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9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state	: Solid
Form	: Powder
Color	: Black
Odor	: Odorless
Odor Threshold	: No data available.
Melting Point	: No data available.
Boiling Point	: No data available.
Flammability	: No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper	: No data available.
Explosive limit - lower	: No data available.
Flash Point	: No data available.
Self Ignition Temperature	: No data available.
Decomposition Temperature	: No data available.
pH	: No data available.

Viscosity

Dynamic viscosity	: No data available.
Kinematic viscosity	: No data available.
Flow Time	: No data available.

Solubility(ies)

Solubility in Water	: Insoluble in water
Solubility (other)	: Partially soluble in toluene, chloroform and tetrahydrofurane
Partition coefficient (n-octanol/water)	: No data available.

Vapor pressure	: No data available.
Relative density	: No data available.
Density	: 1.2 g/ml
Vapor density (air=1)	: No data available.

Particle characteristics

Particle Size	: No data available.
Particle Size Distribution	: No data available.

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10. Stability and reactivity

Reactivity	:	No data available.
Chemical Stability	:	Stable in general
Possibility of hazardous reactions	:	Stable
Conditions to avoid	:	No data available.
Incompatible Materials	:	No data available.
Hazardous Decomposition Products	:	No data available.

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11. Toxicological information

Acute toxicity (list all possible routes of exposure)

Oral

Product : LD 50 (Rat): > 2,000 mg/kg
 LD 50 (Rat): < 5,000 mg/kg
 Not classified based on available data.

Dermal

Product : Classification not possible due to insufficient data.

Inhalation

Product : Dusts, mists and fumes: Classification not possible due to insufficient data.
 Vapour: Classification not possible due to insufficient data.

Skin Corrosion/Irritation

Product : OECD TG404 Rabbit, 4 h: Non irritant undiluted
 Not classified based on available data.

Serious Eye Damage/Eye Irritation

Product : Classification not possible due to insufficient data.

Components

Tin oxide : Category 2: (88)

Respiratory or Skin Sensitization

Product : Skin sensitization, LLNA Skin: (Mouse): Negative
 Skin: Not classified based on available data.
 Respiratory: Classification not possible due to insufficient data.

Carcinogenicity

Product : Classification not possible due to insufficient data.

IARC

: No carcinogens present or none present in regulated quantities.

Germ Cell Mutagenicity

In vitro

Product : Ames test (TA98, TA100, TA1535, TA1537, TA1538, WP2uvrA): Negative
 Classification not possible due to insufficient data.

In vivo

Product : Classification not possible due to insufficient data.

Reproductive toxicity

Product : Classification not possible due to insufficient data.

Specific Target Organ Toxicity - Single Exposure

Product : Classification not possible due to insufficient data.

Components

Tin oxide : Category 1: respiratory tract, Kidney: (88)

Specific Target Organ Toxicity - Repeated Exposure

Product : Classification not possible due to insufficient data.

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Components

Tin oxide : Category 1: systemic toxicity: (88)

Aspiration Hazard

Product : No data available.

Other effects : No data available.

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12. Ecological information

Ecotoxicity	:	
Acute hazards to the aquatic environment	:	
Fish		
Product	:	Classification not possible due to insufficient data.
Aquatic Invertebrates		
Product	:	Classification not possible due to insufficient data.
Toxicity to Aquatic Plants		
Product	:	No data available.
Chronic hazards to the aquatic environment	:	
Fish		
Product	:	Classification not possible due to insufficient data.
Aquatic Invertebrates		
Product	:	Classification not possible due to insufficient data.
Toxicity to Aquatic Plants		
Product	:	No data available.
Persistence and Degradability		
Biodegradation		
Product	:	No data available.
BOD/COD Ratio		
Product	:	No data available.
Bioaccumulative potential		
Bioconcentration Factor (BCF)		
Product	:	No data available.
Partition Coefficient n-octanol / water (log Kow)		
Product	:	No data available.
Mobility in soil	:	No data available.
Other adverse effects	:	No data available.

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13. Disposal considerations

- Disposal methods** : Review "HANDLING AND STORAGE (Section 7)".
Passed to a licensed waste contractor.
This product may cause risk of dust explosion.
- Contaminated Packaging** : No data available.

14. Transport information**IATA**

Not Regulated

IMDG

Not Regulated

Hazchem Code : No data available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

Domestic Standard : In compliance with domestic law.

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15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poisons Schedule Number

Product : Poisons schedule number not allocated.

Notifiable Carcinogenic Substances

Not Regulated

Prohibited Carcinogenic Substances

Not Regulated

National Pollutant Inventory (NPI) substance reporting list

Carbon black	Category threshold (quantity of fuel or waste burned by facility):400tonnes/yr Category threshold (quantity of fuel or waste burned by facility):2000tonnes/yr	Threshold Category: 2A Threshold Category: 2B
Silica	Category threshold (quantity of fuel or waste burned by facility):400tonnes/yr Category threshold (quantity of fuel or waste burned by facility):2000tonnes/yr	Threshold Category: 2A Threshold Category: 2B
Organic pigment	Category threshold (quantity of fuel or waste burned by facility):2000tonnes/yr Threshold quantity:10tonnes/yr	Threshold Category: 2B Threshold Category: 1
Methyl methacrylate	Threshold quantity:10tonnes/yr	Threshold Category: 1

Prohibited Substances (National Model Regulations for the Control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994))

Not Regulated

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not Regulated

Importation of Ozone Depleting Substances (Customs (Prohibited Imports) Regulations 1956, Schedule 10)

Not Regulated

High Volume Industrial Chemicals (HVIC)

Carbon black	Threshold quantity: 10000 - 99999 tonnes
Silica	Threshold quantity: 10000 - 99999 tonnes
Organic pigment	Threshold quantity: 1000 - 9999 tonnes
Methyl methacrylate	Threshold quantity: 10000 - 99999 tonnes

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Inventory Status	:	
US TSCA Inventory	:	On or in compliance with the inventory
Canada DSL Inventory List	:	Not in compliance with the inventory
Australia AICS	:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI)	:	Not in compliance with the inventory
Japan (ENCS) List	:	On or in compliance with the inventory
Japan ISHL Listing	:	On or in compliance with the inventory
Philippines PICCS	:	Not in compliance with the inventory
China Inv. Existing Chemical Substances	:	On or in compliance with the inventory
REACH (EU)	:	Contact us for information
Taiwan Chemical Substance Inventory	:	On or in compliance with the inventory

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16. Other Information

- Further Information** : No data available.
- References** : No data available.
- Disclaimer** : To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein.
Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.
In the case of the product for fragrance, it's in accordance with the latest standard of IFRA within ordinary use. Contact with the supplier for detail information.
- Reference** : (88): ECHA-REACH Registered Substances Database