

SAFETY DATA SHEET

Toner powder (cartridge) for

B410 / B430 / B440 series

MB470 / 480 series

ES4140 / ES4180 series

Oki Data Corporation

SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company/undertaking

Product name : Black toner powder (cartridge) for
 B410 / B430 / B440 series
 MB470 / 480 series
 ES4140 / ES4180 series
 (Toner powder name : TN12)

Manufacturer : Oki Data Corporation
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Supplier **Australia** : Oki Data Australia Pty Ltd
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New Zealand : Comworth Systems Ltd.
 8 Antares Place, Rosedale, Auckland, New Zealand
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2. Hazards identification

Classification of the substance or mixture

Consumers

Classification of product for consumer packaging and consumer use.

GHS-Classification : Not classified
 GHS Label elements, including precautionary statements : None required

Industrial User

Classification of product for bulk packaging and industrial use.

GHS-Classification : Not classified
 GHS Label elements, including precautionary statements :
 Symbol(s) : None
 Signal Word : None
 Hazard Statement : None required
 Precautionary Statements : None required

Other hazards which do not result in classification.

Inhalation of dust in high concentration may cause irritation of respiratory system.

Dust may cause mechanical irritation to eyes.

Minimum respiratory or mechanical eye irritation may occur as with exposure to large amounts of any non-toxic dust.

3. Composition/information on ingredients

Chemical Name	CAS No.	Weight %	EC-No.
Polymer	292629-36-8	70 - 90	-
Wax	PROPRIETARY	5 - 15	Listed
Carbon Black	1333-86-4	1 - 5	215-609-9
Additive	PROPRIETARY	< 5	Listed

4. First aid measures

Description of necessary first-aid measures

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

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

Skin contact : Wash skin with soap and water.

Inhalation : Move to fresh air.

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

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

Most important symptoms / effects, acute and delayed

Main symptoms : Overexposure may cause : mild respiratory irritation similar to nuisance dust.

Indication of immediate medical attention and special treatment needed, if necessary

Notes of physician : Treat symptomatically.

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5. Fire-fighting measures

Flash point : Not applicable.

Suitable Extinguishing Media

Suitable extinguishing media : Use water spray or fog; do not use straight streams. Foam.
Extinguishing media which must not be used for safety reasons : Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

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

Protective Equipment and Precautions for Firefighters

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid breathing dust.

Environmental Precautions

Environmental Precautions : Refer to protective measures listed in Sections 7 and 8.

Methods and materials for containment and cleaning up

Methods for Containment : Prevent dust cloud.
Methods for cleaning up : Prevent dust cloud. Sweep up or vacuum up spillage and collect in suitable container for disposal. Use approved industrial vacuum cleaner for removal.
Use non-sparking tools and equipment.

Other information

Other information : See Section 12 for additional Ecological information.

7. Handling and storage

Precautions for safe handling

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.
Prevent dust cloud.

Conditions for safe storage, including any incompatibilities

Technical measures / Storage conditions : Keep container tightly closed in a dry and well-ventilated place.
Store at room temperature.
Incompatible products : None

8. Exposure controls/personal protection

Control parameters

Exposure Limits

Product Information
ACGIH TLV TWA : 10 mg/m3 (inhalable particles)
ACGIH TLV TWA : 3 mg/m3 (respirable particles)
OSHA PEL TWA : 15 mg/m3 (total dust)
OSHA PEL TWA : 5 mg/m3 (respirable dust)

Biological standards

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering measures : None under normal use conditions.

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

Personal Protective Equipment

General Information : These recommendations apply to the product as supplied.
Respiratory protection : No special protective equipment required.
Eye/Face Protection : No special protective equipment required.
Skin and body protection : No special protective equipment required.
Hand Protection : No special protective equipment required.

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8. Exposure controls/personal protection

Industrial use	:	In case of insufficient ventilation: Wear protective eyewear (goggles). Effective dust mask.
Hygiene measures	:	None under normal use conditions.
Industrial User	:	Do not eat, drink or smoke when using this product. Wash hands before eating, drinking, chewing gum, using tobacco, or using toilet. Wash hands before breaks and at the end of workday. Provide regular cleaning of equipment, work area and clothing.

9. Physical and chemical properties

Appearance	:	Powder
Color	:	Black
Odor	:	Faint
Physical State	:	Solid
Odor Threshold	:	Not applicable
pH	:	Not applicable
Flash Point	:	Not applicable
Boiling Point / Range	:	Not applicable
Softening Point	:	49 - 60°C / 120 - 140°F
Autoignition temperature	:	Not applicable
Flammability Limits in Air	:	Not applicable
Explosive properties	:	Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Vapor pressure	:	Not applicable
Vapor 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
Specific Gravity	:	Not applicable

10. Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	None under normal processing.
Conditions to Avoid	:	Prevent dust cloud. Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Materials to Avoid	:	None.
Hazardous Decomposition Products	:	None under normal use.

11. Toxicological information

Acute toxicity

Product Information

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

Eyes	:	No known effect
Skin	:	No known effect
Inhalation	:	No known effect
Ingestion	:	No known effect

Component Information

Main symptoms	:	Overexposure may cause : mild respiratory irritation similar to nuisance dust.
Aggravated Medical Conditions	:	None under normal use conditions.

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Chronic toxicity

Sensitization	:	No sensitization responses were observed.
Neurological Effects	:	No information available
Target organ effects	:	None known.
Other adverse effects	:	None known.

CMR Effects

Carcinogenicity	:	See "Other Information" in this section.
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Chemical Name	IARC	NTP
Carbon Black	2B	

Mutagenic effects	:	Not mutagenic in AMES Test.
Reproductive toxicity	:	None known.
Developmental toxicity	:	None known.
Teratogenicity	:	None known.

Other information

The results obtained from Chronic Toner Inhalation Study demonstrated no lung changes in rats for the lowest (1mg/m³) exposure level (the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25% of animals at the middle (4mg/m³) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16mg/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 an EPA testing protocol.

The IARC (International Agency for Research on Cancer) has listed carbon black as "possibly carcinogenic to humans". The classification is based on studies evaluating pure, "free" carbon black. In contrast, toner is a formulation composed of specially prepared polymer and a small amount of carbon black (or other pigment). In the process of making toner, the small amount of carbon black becomes encapsulated within a matrix. Extensive testing of toner, including a chronic bioassay (test for potential carcinogenicity). Exposure to toner did not produce evidence of cancer in exposed animals. The results were submitted to regulatory agencies and published extensively.

12. Ecological information

Ecotoxicity

The environmental impact of this product has not been fully investigated. However, this preparation is not expected to present significant adverse environmental effects.

13. Disposal considerations

Waste from Residues / Unused Products	:	Dispose of in accordance with local regulations.
Contaminated packaging	:	Dispose of in accordance with local regulations.

14. Transport information

Note

UN Classification Number	:	Not applicable
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This material is not subject to regulation as a hazardous material (dangerous good) in transportation under DOT 49 CFR, ADR, IMDG, IATA or ICAO-TI.

15. Regulatory information

International Inventories

EINECS / ELINCS (EU)	:	Complies
TSCA (US)	:	Complies
DSL/NDSL (Canada)	:	Complies
ENCS (Japan)	:	Complies
IECSC (China)	:	Complies
KECL (Korea)	:	Not determined
PICCS (Philippines)	:	Not determined
AICS (Australia)	:	Complies

National regulatory information

Chemical Name	Australia - Food Standards
Additive -	Generally permitted processing aids.

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U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	:	No
Chronic Health Hazard	:	No
Fire Hazard	:	No
Sudden Release of Pressure Hazard	:	No
Reactive Hazard	:	No

Clean Water Act

This product is not regulated as a pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product is not regulated as a hazardous air pollutant (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements of the local, regional, or state level pertaining to releases of this material.

TSCA

TSCA 12b does not apply to this product.

U.S. State Regulations

California Proposition 65

Carbon black is regulated under California Proposition 65 only if in the form of "airborne, unbound particles of respirable size". Toner products do not contain carbon black in the form of "airborne, unbound particles of respirable size". Therefore, the requirements of Proposition 65 do not apply to this product.

Chemical Name	CAS-No	California Prop.65
Carbon Black	1333-86-4	Carcinogen

U.S. State Right-to-Know Regulations

Although this product contains substances included in some U.S.State Right-to-Know regulations, the particles are bound in a unique matrix and, therefore, the product does not pose any specific hazard.

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Carbon Black	X	X	X	X	X

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the (M)SDS contains all the information required by the CPR.

WHMIS Hazard Class

Not subject to WHMIS classification.

16. Other information

Disclaimer

The information provided on this (M)SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.