

MSDS No.: TNR-M0010

(for au and nz)

# MATERIAL SAFETY DATA SHEET (MSDS)

# **TONER CARTRIDGE for**

B4400/4500/4600 series

Oki Data Corporation

#### **SAFETY DATA SHEET**

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

Product name : Black toner cartridge for

B4400/4500/4600 series

Manufacturer : Oki Data Corporation

3-1 Futaba-cho Takasaki-shi Gunma 370-8585 JAPAN

Tel: 81-27-328-6366 Fax: 81-27-328-6396

Supplier Australia : Oki Data Australia Pty Ltd

146 O'Riordan street , Mascot , NSW 2020 , Australia

Tel: 61-1800-800-140

email: cscentre@oki.com.au

New : Comworth Systems Ltd.

Zealand 8 Antares Place, Rosedale, Auckland, NewZealand

Tel: 0800 778800

email: helpdesk@comworth.co.nz

#### 2. Hazards identification

GHS CLASSIFICATION PHYSICAL

HAZARDS HEALTH HAZARDS

Not classified

ACUTE TOXICITY(Oral) : Not classified ACUTE TOXICITY(Dermal) : Not classified ACUTE TOXICITY(Inhalation) : Not classified

SKIN CORROSION / IRRITATION SERIOUS EYE DAMAGE / EYE Classification not possible Classification not possible

IRRITATION

RESPIRATORY SENSITIZATION : Classification not possible SKIN SENSITIZATION : Classification not possible GERM CELL MUTAGENICITY : Classification not possible CARCINOGENICITY : Classification not possible REPRODUCTIVE TOXICITY : Classification not possible

:

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY

- SINGLE EXPOSURE : Classification not possible
- REPEATED EXPOSURE : Classification not possible
ASPIRATION HAZARD : Classification not possible

ENVIRONMENTAL HAZARDS

HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE TOXICITY : Classification not possible - CHRONIC TOXICITY : Classification not possible

GHS LABEL ELEMENTS : Not applicable

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 occour as with exposure to large amount of any not-toxic dust.

#### 3. Composition/information on ingredients

SUBSTANCE / MIXTURE : Mixture

INGREDIENTS AND CONCENTRATION RANGE

 Ingredients
 Concentration Range(%)
 CAS RN

 Polymer
 70 - 90
 292629-36-8

 Wax
 5 - 15
 PROPRIETARY

 Carbon Black
 1 - 5
 1333-86-4

 Aadditive
 1 - 5
 PROPRIETARY

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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#### 4. First aid measures

For external use only.

General advice When symptoms persist or in all cases of doubt seek medical advice.

Show this material safety data sheet to the doctor in attendance.

Immediately flush with plenty of water. After initial flushing, remove Eye contact

any contact lenses and continue flushing for at least 15 minutes.

Wash skin with soap and water. Skin contact

Move to fresh air. Inhalation

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

Notes to physician Treat symptomatically.

Protection of First-aiders No special protective equipment required.

# 5. Fire fighting measures

Not applicable. Flash point

Suitable Extinguishing Media

Use water spray or fog;do not use straight streams. Foam. Suitable Extinguishing Media **Unsuitable Extinguishing Media** 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/flame 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 Avoid breathing dust.

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

**Methods for Containment** Prevent dust cloud.

Prevent dust cloud. Sweep up or vacuum up spillage and collect in suitable container Methods for cleaning up

for disposal. Use approved industrial vacuum cleaner for removal.

Use non-sparking tools and equipment. See Section 12 for additional information.

# 7. Handling and storage

Other information

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Prevent dust cloud

Technical measures/Storage Keep container tightly closed in a dry and well-ventilated place.

conditions Store at room temperature.

Hygiene measures None under normal use conditions.

#### 8. Exposure controls/personal protection

#### **Exposure Guidelines**

**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) **Internal Exposure Limit** 2.5 mg/m3 (total dust) **Internal Exposure Limit** 0.4 mg/m3 (respirable dust)

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/m<sub>3</sub>) 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.

Personal Protective Equipment

These recommendations apply to the product as supplied. Consumer use

Respiratory protection No special protective equipment required. **Eve/Face Protection** No special protective equipment required. Skin and body protection No special protective equipment required. **Hand Protection** No special protective equipment required.

Industrial use In case of insufficient ventilation: Wear protective eyewear(goggles). Effective dust mask.

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#### **MATERIAL SAFETY DATA SHEET**

# 9. Physical and chemical properties

**PHYSICAL STATES** 

 FORM
 :
 Powder

 COLOUR
 :
 Black

 ODOUR
 :
 Faint

 pH
 :
 Not applicable

SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

BOILING POINT : Not applicable
MELTING (SOFTENING) POINT : 49-60 / 120-140F
FLASH POINT : Not applicable

FLAMMABILITY OR EXPLOSIVE PROPERTIES

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

FLAMMABILITY OR EXPLOSIVE : Not applicable

LIMITS

VAPOUR PRESSURE : Not applicable VAPOUR DENSITY : Not applicable

SPECIFIC GRAVITY(DENSITY) : No information available

SOLUBILITY

WATER SOLUBILITY : Negligible

SOLVENT SOLUBILITY : No information available

PARTITION COEFFICIENT : n- : Not applicable

OCTANOL / WATER(log Pow)

AUTO-IGNITION TEMPERATURE : Not applicable

ODOUR THRESHOLD : No information available EVAPORATION RATE : No information available

FLAMMABILITY(SOLD,GAS) : Not applicable

VISCOSITY : No information available OTHER DATA : No information available

# 10. Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Stability : Stable under normal conditions.

 $\label{eq:local_products} \mbox{Incompatible products} \qquad : \qquad \mbox{None}.$ 

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.

**Hazardous Decomposition** 

Products

None under normal use.

Hazardous Polymerization : Hazardous polymerization does not occur.

Hazardous Reactions : None under normal processing.

# 11. Toxicological information

#### **ACUTE TOXICITY**

Irritation : No skin irritation.No eye irritation.

 Oral
 :
 Rat, LD50 : >5000 mg/kg

 Dermal
 :
 Rabbit, LD50: >5000mg/kg

 Inhalation
 :
 Rat, LC50 >5mg/L (4 hr)

**Chronic toxicity** 

**Product Information** 

Chronic Effects : No known effects under normal use conditions.

Carcinogenicity :

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.

Other Toxic Effects

Product Information

Sensitization : No sensitization responses were observed.

Mutagenic Effects : Not mutagenic in AMES Test.

Target Organ Effects : None known.

Aspiration Hazard : Not applicable.

Other adverse effects : None known.

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# 12. Ecological information

#### **ECOTOXICITY**

The environmental impact of this product has not been fully investigated.

Howeve, this preparation in not expected to present significant adverse environmental effects.

# 13. Disposal considerations

Waste from Residues/Unused

Dispose of in accordance with local regulations.

**Products** 

Contaminated packaging Dispose of in accordance with local regulations.

# 14. Transport information

INTERNATIONAL REGULATIONS

**UN CLASS / UN NUMBER** Not applicable

SPECIAL PRECAUTIONS FOR USE Review "ACCIDENTAL RELEASE MEASURES(Section6)".

Review "HANDLING AND STORAGE(Section7)".

Comply with the regulations of inernational and each countries.

# 15. Regulatory information

#### **INVENTORIES**

**EINECS/ELINCS (EU)** Complies TSCA(USA) Complies Complies DSL/NDLS (Canada) ENCS(Japan) Complies

All ingredients are registered under The industrial Chemicals (Notification and Assesment) Act 1989, or under the polymer exemption.

All ingredients are exempt, registered or considered polymer under The Australian Inventory of Chemical Substances (AICS). with Directive NIC504735 : not classified.

Not every regulatory information for each countries can not be identified, please conform and comply regulations in your country or region, on your own responsibility.

#### 16. Other information

REFERENCES -Safety data sheet for chermical products - Part 1: Content and order of sections(ISO 11014-1)

-International Chemical Safety Cards(ICSC)(Compiler's Guide)(1994)

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.

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