RICOH InfoPrint Solutions

SAFETY DATA SHEET

1. Identification

Product identifier InfoPrint 4100 Enhanced Printing Toner Version 5

Other means of identification

Product code 17R7725, 56Y2500

Synonyms Company Chemical No.: 940158410 **Recommended use** Toner for use in InfoPrint printers.

Recommended restrictions None known.

Manufacturer / Importer / Supplier / Distributor information

Company nameRicoh Company Ltd.Address6300 Diagonal Highway

Boulder, Colorado 80301-9270

U.S.A.

Telephone 1-866-213-4250
Website www.infoprint.com
E-mail msdsinfo@infoprint.com

Emergency phone number 1-760-476-3961; Access: 333114

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbolNone.Signal wordNone.Hazard statementNone.

Precautionary statement

PreventionObserve good industrial hygiene practices.ResponseGet medical attention/advice if you feel unwell.StorageStore away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

Fine particles may form explosive mixtures with air.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Confidential ingredients	Trade secrets	90
Carbon black	1333-86-4	9
Silica	7631-86-9	1

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume.

4. First-aid measures

Inhalation If symptomatic, move to fresh air. Get medical attention if any discomfort continues.

Skin contact Wash skin with soap and water. Should dermal irritation or dermal sensitization occur, seek

medical attention.

Eye contactDo not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance. **Ingestion**Rinse mouth thoroughly if dust is ingested. Get medical attention if any discomfort continues.

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Most important symptoms/effects, acute and delayed

May cause abdominal discomfort if swallowed.

5. Fire-fighting measures

Suitable extinguishing media

Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media

Specific hazards arising from the chemicalDust may form explosive mixture with air.
Fire or high temperatures create: Carbon

Fire or high temperatures create: Carbon oxides. Silicon oxides. Unidentified organic compounds.

Special protective equipment and precautions for firefighters

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in

the workplace.

None.

Fire-fighting

equipment/instructions

Avoid dust formation.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear necessary protective equipment.

Methods and materials for containment and cleaning up

Sweep or scoop up and remove. Avoid dust formation. Avoid sparks and prevent accumulation of electrostatic charges. Collect and dispose of spillage as indicated in section 13 of the SDS. Inform

authorities if large amounts are involved.

Environmental precautions Avoid discharge into water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid inhalation of dust and contact with skin and eyes. Use with adequate ventilation. Wear necessary protective equipment. Use personal protection as recommended in Section 8 of the SDS. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in closed original container in a dry place. Keep away from heat, sparks and open flame.

Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Carbon black (CAS	PEL	3.5 mg/m3	
1333-86-4)			

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Туре	Value	
Silica (CAS 7631-86-9)	TWA	0.8 mg/m3	
		20 mppcf	

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Carbon black (CAS	TWA	3 mg/m3	Inhalable fraction.
1333-86-4)			

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
Carbon black (CAS 1333-86-4)	TWA	0.1 mg/m3	
Silica (CAS 7631-86-9)	REL	6 mg/m3	

Biological limit valuesNo biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection If significant eye exposure is anticipated, the use of chemical safety goggles is recommended.

Skin protection

Hand protection If significant skin exposure is anticipated, appropriate gloves should be worn to prevent skin

contact with this substance. Suitable gloves can be recommended by the glove supplier.

Other No protection is ordinarily required under normal conditions of use.

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No protection is ordinarily required under normal conditions of use and with adequate ventilation. Respiratory protection

During dust-raising work: If ventilation is insufficient, suitable respiratory protection must be

provided.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Solid. Physical state **Form** Powder. Color Grav/black. Odor Mild.

Odor threshold Not available. Not applicable. pН

Melting point/freezing point > 2552 °F (> 1400 °C) / Not applicable.

Initial boiling point and boiling

range

Not applicable.

Not applicable. Flash point Not applicable. **Evaporation rate** Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Not available. Explosive limit - lower (%) Not available. **Explosive limit - upper (%)** Vapor pressure Not applicable. Vapor density Not applicable. Relative density 6 (Water = 1)

Solubility(ies)

Solubility (water) Negligible. **Partition coefficient** Not applicable.

(n-octanol/water) **Auto-ignition temperature**

Not applicable. **Decomposition temperature** Not available. Not applicable.

10. Stability and reactivity

The product is non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability Stable under normal temperature conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Viscosity

Conditions to avoid Heat, sparks, flames. Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Carbon oxides. Silicon oxides. Unidentified organic compounds.

11. Toxicological information

Information on likely routes of exposure

No harmful effects expected in amounts likely to be ingested by accident. Ingestion Respiratory tract irritation may occur with exposure to large amounts of dust. Inhalation

Skin contact Not known to Ricoh Production Print Solutions Company as a dermal irritant or dermal sensitizer.

May cause irritation through mechanical abrasion. Eye contact

SDS US

Symptoms related to the physical, chemical and toxicological characteristics

May cause discomfort if swallowed.

Information on toxicological effects

Acute toxicity As with exposure to high concentrations of any dust, irritation of the respiratory tract may occur.

Persons with certain pre-existing upper respiratory disorders, such as bronchitis or asthma have

an increased risk of irritation.

Skin corrosion/irritation No data available.

Serious eye damage/eye

irritation

May cause temporary eye irritation.

Respiratory or skin sensitization

Respiratory sensitization No data available.

Skin sensitization Not known to Ricoh Production Print Solutions Company as a dermal irritant or dermal sensitizer.

Germ cell mutagenicity No data available.

Carcinogenicity Pure carbon black, a minor component of this product, is not classified as hazardous when bound

in toner polymers.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

Silica (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

Specific target organ toxicity -

single exposure

No data available. No data available.

Specific target organ toxicity -

repeated exposure

No data available.

Aspiration hazard No data available.

Chronic effects Chronic exposure may cause potential risk of irreversible pulmonary effects. Chronic exposure is

highly unlikely when this product is used as intended.

12. Ecological information

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not

exclude the possibility that large or frequent spills can have a harmful or damaging effect on the

environment.

Persistence and degradability

Bioaccumulative potential

Mobility in soil

No data available.

No data available.

Mobility in general The product is insoluble in water.

Other adverse effects No data available.

13. Disposal considerations

Disposal instructionsDo not discharge into drains or the environment, please contact your local municipality / waste

handler for disposal requirements.

Hazardous waste code Not regulated.

Waste from residues / unused

products

Dispose in accordance with all applicable regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

US. Massachusetts RTK - Substance List

Carbon black (CAS 1333-86-4)

Silica (CAS 7631-86-9)

US. New Jersey Worker and Community Right-to-Know Act

Carbon black (CAS 1333-86-4) Silica (CAS 7631-86-9)

US. Pennsylvania Worker and Community Right-to-Know Law

Carbon black (CAS 1333-86-4) Silica (CAS 7631-86-9)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

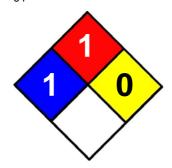
Carbon black (CAS 1333-86-4)

16. Other information, including date of preparation or last revision

Issue date 11-March-2014

Revision date - Version # 01

NFPA Ratings



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Disclaimer

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