

# SAFETY DATA SHEET

### 1. Identification

Product identifier	InfoPrint 4000/3900 Enhanced Printing Toner	
Other means of identification		
Product code	10R4420, 1402833	
Synonyms	Company Chemical No.: 940010130	
Recommended use	Toner for use in InfoPrint printers.	
Recommended restrictions	None known.	
Manufacturer / Importer / Supplie	er / Distributor information	
Company name Address	Ricoh Company Ltd. 6300 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 symbol	None.	
Signal word	None.	
Hazard statement	None.	
Precautionary statement		
Prevention	Observe good industrial hygiene practices.	
Response	Get medical attention/advice if you feel unwell.	

Store away from incompatible materials.

Fine particles may form explosive mixtures with air.

Disposal Hazard(s) not otherwise classified (HNOC)

Storage

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name		CAS number	%
Carbon black		1333-86-4	5-8
Composition comments	All concentrations are in percent by weight unles percent by volume.	s ingredient is a gas. Gas	concentrations are in
4. First-aid measures			
Inhalation	If symptomatic, move to fresh air. Get medical at	ttention if any discomfort of	continues.
Skin contact	Wash skin with soap and water. Should dermal i medical attention.	rritation or dermal sensitiz	ation occur, seek
Eye contact	Do not rub eyes. Flush thoroughly with water. If i	irritation occurs, get medic	al assistance.
Ingestion	Rinse mouth thoroughly if dust is ingested. Get r	medical attention if any dis	comfort continues.
Most important symptoms/effects, acute and delayed	May cause abdominal discomfort if swallowed.		

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

### 5. Fire-fighting measures

Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	None.
Specific hazards arising from the chemical	Dust may form explosive mixture with air. Fire or high temperatures create: Carbon 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.
Fire-fighting equipment/instructions	Avoid dust formation.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear necessary protective equipment. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Sweep or scoop up and remove. Avoid dust formation. Collect and dispose of spillage as indicated in Section 13 of the SDS.
Environmental precautions	Avoid discharge into water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling	Avoid inhalation of dust. Avoid exposure to eyes, skin or clothing (will stain). Use with adequate ventilation. Avoid sparks and prevent accumulation of electrostatic charges. 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 containers closed when not in use. 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 1333-86-4)	PEL	3.5 mg/m3	
US. ACGIH Threshold Lim	it Values		
Components	Туре	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	
Carbon black (CAS 1333-86-4)	TWA	0.1 mg/m3	
ological limit values	No biological exposure limits noted t	for the ingredient(s).	
propriate engineering ntrols	Provide adequate ventilation. Where wash fountain should be provided w		
dividual protection measure	s, such as personal protective equipr	nent	
Eye/face protection	If significant eye exposure is anticipation	ated, the use of chemical safet	ty 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.		
Other	Protective clothing is not required under normal conditions.		
Respiratory protection	No protection is ordinarily required under normal conditions of use and with adequate ventilation. During dust-raising work: If ventilation is insufficient, suitable respiratory protection must be provided. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
eneral hygiene nsiderations	Always observe good personal hygic and before eating, drinking, and/or s equipment to remove contaminants.		

### 9. Physical and chemical properties

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Appearance	
Physical state	Solid.
Form	Solid.
Color	Black
Odor	Faint.
Odor threshold	Not available.
рН	Not applicable
Melting point/freezing point	Not applicable
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not applicable
Vapor density	Not applicable
Relative density	1.16
Solubility(ies)	
Solubility (water)	Negligble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available.
Viscosity	Not applicable
Other information	
Partition coefficient (oil/water)	Not applicable

### 10. Stability and reactivity

Reactivity	Stable at normal conditions.
Chemical stability	Stable under normal temperature conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Heat, sparks, flames.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	At elevated temperatures: Unidentified organic compounds.

### 11. Toxicological information

#### Information on likely routes of exposure

Ingestion	No harmful effects expected in amounts likely to be ingested by accident.
Inhalation	Respiratory tract irritation may occur with exposure to large amounts of dust.
Skin contact	Not known to Ricoh Production Print Solutions Company as a dermal irritant or dermal sensitizer.
Eye contact	May cause irritation through mechanical abrasion.
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 sensitizatior	1	
<b>Respiratory sensitization</b>	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.	
Reproductive toxicity	No data available.	
Specific target organ toxicity - single exposure	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	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	Not available.
Mobility in general	The product is insoluble in water.
Other adverse effects	Not available.

### 13. Disposal considerations

Disposal instructions	Do 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.

#### ΙΑΤΑ

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not available. Annex II of MARPOL 73/78 and the IBC Code

#### 15. Regulatory information

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.

**US** federal regulations

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### S

Superfund Amendments and Reauthorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	
Not listed.	
SARA 311/312 Hazardous chemical	No
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 (SDWA)	Not regulated.
US state regulations	
US. Massachusetts RTK - Substance List	
Carbon black (CAS 1333-86-4)	
US. New Jersey Worker and Community Right-to-Know Act	
Carbon black (CAS 1333-86-4)	
US. Pennsylvania Worker and Community Right-to-Know Law	
Carbon black (CAS 1333-86-4)	
US. Rhode Island RTK	
Not regulated.	_
US. California Proposition 65	5

#### 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	10-March-2014
Revision date	-
Version #	01
Further information	HMIS® is a registered trade and service mark of the NPCA.
NFPA Ratings	



References

ACGIH EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices The information provided on this SDS is correct to the best of Ricoh Production Print Solutions Company's 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, either express or implied, regarding the accuracy of the data or information contained herein. 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.

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