

1. Identification

Product identifier	InfoPrint 1540 MFP, 1560 MFP, 1580 MFP Toner Cartridge; InfoPrint 1585 Toner Cartridge
Other means of identification	
Product code	39V0529, 75P6877
Synonyms	Company Chemical No.: 940216890
Recommended use	Toner for use in InfoPrint printers.
Recommended restrictions	None known.
Manufacturer / Importer / Supplier / Distributor information	
Company name	Ricoh Company Ltd.
Address	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.
Storage	Store 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	%
Styrene butylacrylate copolymer	Trade Secret	70-90
Amorphous silica	Trade Secret	1-10
Carbon black	1333-86-4	1-10
Polyethylene	Trade Secret	1-10
Titanium dioxide	Trade Secret	1-10

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. Not known to InfoPrint Solutions Company as a dermal irritant or dermal sensitizer.
Eye contact	Do 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.
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	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. 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. Avoid exposure to eyes, skin or clothing (will stain). 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	Type	Value	Form
Carbon black (CAS 1333-86-4)	PEL	3.5 mg/m ³	
Titanium dioxide (CAS Trade Secret)	PEL	15 mg/m ³	Total dust.

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

Components	Type	Value
Amorphous silica (CAS Trade Secret)	TWA	0.8 mg/m ³
		20 mppcf

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m ³	Inhalable fraction.
Titanium dioxide (CAS Trade Secret)	TWA	10 mg/m ³	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Amorphous silica (CAS Trade Secret)	TWA	6 mg/m ³
Carbon black (CAS 1333-86-4)	TWA	0.1 mg/m ³

Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust and fumes. Where there is a potential for eye exposure to this substance, an eye wash fountain should be provided within the immediate work area for emergency use.
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.
Respiratory protection	No protection is ordinarily required under normal conditions of use and with adequate ventilation. During dust-raising work: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved air supplied air respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.
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

Physical state	Solid.
Form	Powder.
Color	Black.
Odor	Faint.
Odor threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	Not applicable.

10. Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal temperature conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat, sparks, flames.
Incompatible materials	Strong oxidizing agents.

Hazardous decomposition products Carbon oxides. 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 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 Inhalation of carbon black or titanium dioxide dust may cause cancer, however due to the physical form of the product, inhalation of dust is not likely. 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

Amorphous silica (CAS Trade Secret)	3 Not classifiable as to carcinogenicity to humans.
Carbon black (CAS 1333-86-4)	2B Possibly carcinogenic to humans.
Titanium dioxide (CAS Trade Secret)	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.

Further information Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

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.

Product	Species		Test Results
InfoPrint 1540 MFP, 1560 MFP, 1580 MFP Toner Cartridge; InfoPrint 1585 Toner Cartridge (CAS Mixture)			
Aquatic			
Crustacea	EC50	Daphnia	18181.8182 mg/l, 48 hours, estimated
Fish	LC50	Fish	18181.8182 mg/l, 96 hours, estimated

Persistence and degradability No data available.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Mobility in general The product is insoluble in water.

Other adverse effects No data 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.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. Regulatory information

US federal regulations This product is hazardous according to OSHA 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 chemical Yes

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 WARNING: This product contains chemicals known to the State of California to cause birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Amorphous silica (CAS Trade Secret)
Carbon black (CAS 1333-86-4)
Titanium dioxide (CAS Trade Secret)

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

Amorphous silica (CAS Trade Secret)
Carbon black (CAS 1333-86-4)
Titanium dioxide (CAS Trade Secret)

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

Amorphous silica (CAS Trade Secret)
Carbon black (CAS 1333-86-4)
Titanium dioxide (CAS Trade Secret)

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)

Titanium dioxide (CAS Trade Secret)

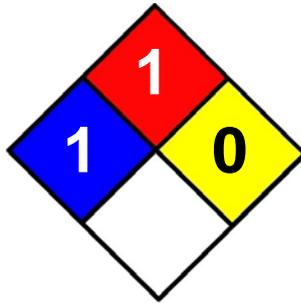
16. Other information, including date of preparation or last revision

Issue date 31-March-2014

Revision date -

Version # 01

NFPA Ratings



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