

SAFETY DATA SHEET

1. Identification

Product identifier InfoPrint 3000 Developer

Other means of identification

Product code 1402718

Synonyms Company Chemical No.: 901244040

Recommended use Developer for use in InfoPrint printers.

Recommended restrictions None known.

Manufacturer / Importer / Supplier / Distributor information

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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	%	
Manganese ferrite black spinel	68186-94-7	90-100	
Styrene acrylic copolymer	25987-66-0	4-9	
Carbon black	1333-86-4	0.45-2.3	
Silicone resin	123127-08-2	0.1-1	

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 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

Not available.

5. Fire-fighting measures

Suitable extinguishing media

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

Unsuitable extinguishing

media

the chemical

None.

Dust may form explosive mixture with air. Fire or high temperatures create: Carbon oxides. Manganese 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.

Fire-fighting

Specific hazards arising from

Avoid dust formation.

equipment/instructions

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.

Environmental precautions Avoid discharge

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. See Section 8 of the SDS for Personal Protective Equipment.

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 1333-86-4)	PEL	3.5 mg/m3
Manganese ferrite black spinel (CAS 68186-94-7)	Ceiling	5 mg/m3

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Manganese ferrite black spinel (CAS 68186-94-7)	TWA	0.1 mg/m3	Inhalable fraction.
,		0.02 mg/m3	Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	Form	
Carbon black (CAS 1333-86-4)	TWA	0.1 mg/m3		
Manganese ferrite black spinel (CAS 68186-94-7)	STEL	3 mg/m3	Fume.	
,	TWA	1 ma/m3	Fume.	

Biological limit values No 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 Wear protective gloves. 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 ventilation is insufficient, suitable respiratory protection must be

provided.

Thermal hazards Not available.

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 Powder. **Form** Color Black Odor Faint.

Odor threshold Not available. pН Not applicable.

> 2732 °F (> 1500 °C) Melting point/freezing point

Initial boiling point and boiling

range

Not applicable.

Not applicable. Flash point **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.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not applicable. Vapor density Not applicable. Relative density 5 (Water = 1)

Solubility(ies)

Solubility (water) Negligible. Partition coefficient

(n-octanol/water)

Not applicable.

Not applicable. **Auto-ignition temperature Decomposition temperature** Not available. **Viscosity** Not applicable.

10. Stability and reactivity

Reactivity Not available.

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

reactions

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 Not available.

Not available. Inhalation Not available. Skin contact Not available. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics May cause discomfort if swallowed.

Information on toxicological effects

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

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

May cause temporary eye irritation.

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.

Reproductive toxicity Specific target organ toxicity -

No data available. No data available.

single exposure

No data available.

Specific target organ toxicity -

repeated exposure

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.

No data available. Persistence and degradability **Bioaccumulative potential** No data available. Mobility in soil Not available.

The product is insoluble in water. Mobility in general

Not available. Other adverse effects

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.

Not available Contaminated packaging

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 available.

Annex II of MARPOL 73/78 and

the IBC Code

InfoPrint 3000 Developer SDS US

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15. Regulatory information

US federal regulations

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)

Manganese ferrite black spinel (CAS 68186-94-7) LISTED

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 No

chemical

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.Manganese ferrite black spinel68186-94-790-100

Other federal regulations

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

Manganese ferrite black spinel (CAS 68186-94-7)

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

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)

Manganese ferrite black spinel (CAS 68186-94-7)

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

Carbon black (CAS 1333-86-4)

US. Rhode Island RTK

Manganese ferrite black spinel (CAS 68186-94-7)

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 27-March-2014

Revision date - 01

NFPA Ratings



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