InfoPrint Solutions

SAFETY DATA SHEET

1. Identification

Product identifier InfoPrint 4247 Printer Ribbon, Black; InfoPrint 4247 L Series Printer Ribbon, Black; InfoPrint

4247 Models V03, X03, Z03 Series Printer Ribbon, Black

Other means of identification

1053685, 41U2235, 57P1743 **Product code**

Company Chemical No.: 940075030 **Synonyms**

Printer Ribbons for use in InfoPrint printers. Recommended use

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 Skin corrosion/irritation Category 2

> Sensitization, skin Category 1

Environmental hazards Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes skin irritation. May cause an allergic skin reaction.

Precautionary statement

Prevention Wash thoroughly after handling. Wear protective gloves. Avoid breathing

dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the

workplace.

Response If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take

off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical

advice/attention. Wash contaminated clothing before re-use.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Oleic Acid	112-80-1	10-15
1,2,3-Propanetriyl trioleate	122-32-7	1-5
Carbon black	1333-86-4	1-5
Pigment black 1	75578-75-5	1-5

White mineral oil (petroleum)	8042-47-5	1-5
.alpha.,.alphabis[4-(dimethyla mino)phenyl]-4-(phenylamino)n aphthalene-1-methanol	6786-83-0	<1
4-(Phenylazo)benzene-1,3-dia mine	495-54-5	<1
Dispersing agent	164383-18-0	<1
Solvent Violet 8	52080-58-7	<1
Fungicide	98726-06-8	0.14
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	<0.1

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 occurs.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical

attention immediately if symptoms occur.

Eye contact Flush thoroughly with water. If irritation occurs, get medical assistance.

Ingestion Rinse mouth thoroughly with water and give large amounts of milk or water, if person is conscious.

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

Seek medical advice.

Most important

symptoms/effects, acute and

delayed

May cause sensitization by skin contact.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

None.

Specific hazards arising from

the chemical

The product is not flammable.

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

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing should be worn when fighting

chemical fires.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. 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. 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 contact with skin and eyes. Persons susceptible for allergic reactions should not handle this product. 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 Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Туре	Value	
Pigment black 1 (CAS	TWA	0.005 mg/m3	

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

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

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

Components	Туре	Value	Form	
White mineral oil (petroleum) (CAS	PEL	5 mg/m3	Mist.	
8042-47-5)				

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components **Type** Value Pigment black 1 (CAS Ceiling 0.1 mg/m3 75578-75-5)

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	Form
Carbon black (CAS 1333-86-4)	TWA	0.1 mg/m3	
White mineral oil (petroleum) (CAS 8042-47-5)	STEL	10 mg/m3	Mist.
•	TWA	5 mg/m3	Mist.

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Pigment black 1 (CAS 75578-75-5)	25 μg/l	Total chromium	Urine	*
,	10 μg/l	Total chromium	Urine	*

^{* -} For sampling details, please see the source document.

Appropriate engineering

controls

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

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

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.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Always observe good personal hygiene measures, such as washing after handling the material **General hygiene** considerations 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 Solid. Black. Color Not available. Odor Not available. **Odor threshold** Not applicable

Melting point/freezing point Not applicable Initial boiling point and boiling Not applicable

range

pН

Flash point Not applicable

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

Flammability limit - lower

Not available.

Not available.

Flammability limit - upper

(%)

Not applicable Vapor pressure Vapor density Not applicable

Relative density Solubility(ies)

> Solubility (water) Insoluble

Partition coefficient

Not applicable

Not available.

(n-octanol/water)

Not applicable **Auto-ignition temperature Decomposition temperature** Not applicable **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 Hazardous polymerization does not occur.

reactions

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

Hazardous decomposition

products

Carbon 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

Inhalation Not likely, due to the form of the product.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Not relevant, due to the form of the product. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics May cause allergic skin disorders in sensitive individuals.

Information on toxicological effects

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

an increased risk of irritation.

Components **Species Test Results**

Oleic Acid (CAS 112-80-1)

Acute

Dermal

LD50 Guinea pig > 3000 mg/kg

Oral

LD50 Rat 74 g/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Not relevant, due to the form of the product.

Respiratory or skin sensitization

Respiratory sensitization No data available.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity Contains a small amount of substance which may be mutagenic for mammalian somatic cells.

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

in toner polymers. Pigment black 1, CAS # 75578-75-5 is not a carcinogen in this product. Hexavalent chromium (CrVI) is reduced to trivalent chromium (CrIII) during the manufacturing

process of this colourant.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

NTP Report on Carcinogens

Pigment black 1 (CAS 75578-75-5) Known To Be Human Carcinogen.

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

Pigment black 1 (CAS 75578-75-5) Cancer

Reproductive toxicity Specific target organ toxicity - No data available.

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

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity**

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

Persistence and degradability No data available. No data available. Bioaccumulative potential No data available. Mobility in soil

The product is insoluble in water. Mobility in general

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 Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

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)

Dispersing agent (CAS 164383-18-0) 1.0 % One-Time Export Notification only. Pigment black 1 (CAS 75578-75-5) 0.1 % Annual Export Notification required.

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

Pigment black 1 (CAS 75578-75-5) Cancer Eye irritation

Skin sensitization

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

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Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Immediate Hazard - Yes **Hazard categories**

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Pigment black 1 (CAS 75578-75-5)

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 chemical(s) known to the State of California to cause cancer.

US. Massachusetts RTK - Substance List

Carbon black (CAS 1333-86-4)

White mineral oil (petroleum) (CAS 8042-47-5)

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

Carbon black (CAS 1333-86-4) Pigment black 1 (CAS 75578-75-5)

White mineral oil (petroleum) (CAS 8042-47-5)

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

Carbon black (CAS 1333-86-4) Oleic Acid (CAS 112-80-1)

Pigment black 1 (CAS 75578-75-5)

White mineral oil (petroleum) (CAS 8042-47-5)

US. Rhode Island RTK

Pigment black 1 (CAS 75578-75-5)

US. California Proposition 65

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

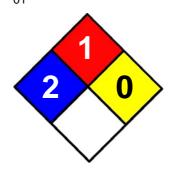
Carbon black (CAS 1333-86-4) Pigment black 1 (CAS 75578-75-5)

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

01-April-2014 Issue date

Revision date Version # 01

NFPA Ratings



Disclaimer

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