

Issuing Date: 29-July-2008 Revision Date: 01-November-2015 Version: 4 SDS No: SP6-01-EUUSOTHER

Product name: PC-401, PC-402RF, PC-404RF, PC-451, PC-501, PC-551, PC-70, PC-71RF, PC-72RF, PC74RF, PC-75 ink film

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name PC-401, PC-402RF, PC-404RF, PC-451, PC-501, PC-551, PC-70, PC-71RF, PC-72RF, PC74RF,

PC-75 ink film

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Use(s)

These products are thermal ink films for Brother Industries, Ltd. facsimile receivers. These products

should be used as supplied by Brother and for use in the products stated. Information provided on

this SDS is only consistent with the use specified by Brother.

1.3 Details of the supplier of the safety data sheet

Manufacturer Brother Industries, Ltd.

15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan

Telephone (for information): +81-52-824-2735

Importer (USA) Brother International Corporation

200 Crossing Boulevard, Bridgewater, NJ 08807, USA

Telephone (for information): +1-877-276-8437

Importer (Canada) Brother International Corporation (Canada) Ltd.

1 Hotel de Ville, Dollard des Ormeaux, Quebec, H9B 3H6, Canada

Telephone (for information): +1-514-685-0600

Importer (Europe) Brother International Europe Ltd.

Brother House, 1 Tame Street, Guide Bridge, Audenshaw, Manchester M34 5JE, UK

Telephone (for information): +44-161-330-6531

Importer (Australia) Brother International (Aust.) Pty. Ltd. ACN 001 393 835

Level 3, Building A, 11 Talavera Road, Macquarie Park, NSW 2113, Australia

Telephone (for information): +61-2-9887-4344

E-mail Address sds.info@brother.co.jp

1.4 Emergency telephone number

Emergency Telephone CHEM

(24 hours)

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CHEMTREC

+1-703-527-3887 (International)

+1-800-424-9300 (North America)

For France only:

Antipoison Center telephone number: ORFILA +33-1-45-425-959

Page 1/8



Issuing Date: 29-July-2008 Revision Date: 01-November-2015 Version: 4 SDS No: SP6-01-EUUSOTHER

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Product name: PC-401, PC-402RF, PC-404RF, PC-451, PC-501,

PC-551, PC-70, PC-71RF, PC-72RF, PC74RF, PC-75 ink film

Not classified as hazardous

Classification according to Directive 1999/45/EC

Not classified as hazardous

Australia Classification

Not classified as hazardous according to the criteria of NOHSC

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

Hazard pictograms

None

Signal Word

None

Hazard Statements

None

Precautionary statements

None

2.3 Other hazards

This product contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This product contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description of the mixture: Ink on substrate film (Mixture).

Chemical Name	CAS-No	EC-No	w/w%	Classification
				(EU Reg. 1272/2008)
Polyethylene telephthalate	25038-59-9	-	48-54	Not classified
Paraffin wax	8002-74-2	232-315-6	23-28	Not classified
Carbon Black	1333-86-4	215-609-9	6-9	Not classified
Resin	**	**	5-7	Not classified
Ethylene-vinyl acetate copolymer	24937-78-8	-	4-5	Not classified
Carnauba wax	8015-86-9	232-399-4	4-6	Not classified
Pigment	**	**	0.5-1	Not classified

For the full text of R-phrases and H-Statements see Section 16

^{**} CONFIDENTIAL



Issuing Date: 29-July-2008 Revision Date: 01-November-2015 Version: 4 SDS No: SP6-01-EUUSOTHER

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SECTION 4: First aid measures

4.1 Description of first aid measures

General advice If symptoms persist, obtain medical attention.

Inhalation Not an expected route of exposure. If symptoms develop obtain medical attention.

Skin contact Wash affected skin with plenty of water or soap and water.

Eye contact Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of

water for at least 15 minutes.

Ingestion Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of water to

drink.

4.2 Most important symptoms and effects, both acute and delayed

No specific effects and/or symptoms have been reported or known.

4.3 Indication of any immediate medical attention and special

treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable Extinguishing Media Extinguish preferably with dry chemical, carbon dioxide, water, foam.

Unsuitable Extinguishing Media None.

5.2 Special hazards arising from the

substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors: Carbon oxides.

5.3 Advice for firefighters

Use appropriate respirator for carbon monoxide and carbon dioxide. Wear positive pressure self-contained breathing apparatus (SCBA) during the attack phase of firefighting operations and during cleanup in enclosed or poorly ventilated areas immediately after a fire. Personnel not having suitable respiratory protection must leave the area to prevent significant exposure to toxic combustion gases from any source.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective

equipment and emergency

procedures

Not normally required.

6.2 Environmental precautions

Not normally required.

6.3 Methods and materials for containment and cleaning up

Not applicable.

6.4 Reference to other sections

For personal protection: See section 8. For disposal considerations: See section 13.



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SECTION 7: Handling and storage

7.1 Precautions for safe handling Keep out of the reach of children.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from oxidizing agents.

7.3 Specific end use(s) These products are thermal ink films for Brother Industries, Ltd. facsimile receivers. These products

should be used as supplied by Brother and for use in the products stated. Information provided on

this SDS is only consistent with the use specified by Brother.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical Name	Paraffin wax 8002-74-2		
ACGIH TLV	TWA: 2 mg/m³ fume		
OSHA PEL	-		
European Union	-		
The United Kingdom	STEL: 6 mg/m ³		
	TWA: 2 mg/m ³		
France	TWA: 2 mg/m ³		
Spain	TWA: 2 mg/m ³		
Portugal	TWA: 2 mg/m ³		
Finland	TWA: 1 mg/m ³		
Denmark	TWA: 2 mg/m ³		
Switzerland	TWA: 2 mg/m ³		
Poland	TWA: 2 mg/m ³		
Norway	TWA: 2 mg/m ³		
	STEL: 4 mg/m ³		
Ireland	TWA: 2 mg/m³		
	STEL: 6 mg/m ³		
Chemical Name	Carbon Black		
4.0000.000	1333-86-4		
ACGIH TLV	TWA: 3 mg/m ³ inhalable fraction		
OSHA PEL	TWA: 3.5 mg/m ³		
European Union	- 4 3		
The United Kingdom	STEL: 7 mg/m ³		
France	TWA: 3.5 mg/m ³		
France	TWA: 3.5 mg/m ³		
Spain	TWA: 3.5 mg/m ³		
Germany	Carc		
Portugal	TWA: 3.5 mg/m ³ TWA: 3.5 mg/m ³		
Finland	STEL: 7 mg/m		
Denmark	TWA: 3.5 mg/m ³		
Poland	TWA: 3.5 mg/m TWA: 4.0 mg/m ³		
Norway	TWA: 4.0 mg/m TWA: 3.5 mg/m ³		
NOIWay	STEL: 7 mg/m ³		
Ireland	TWA: 3.5 mg/m ³		
IIGIAIIA	STEL: 7 mg/m ³		
I	OTEL. 7 mg/m		

8.2 Exposure controls

Appropriate engineering controls Good general ventilation should be sufficient under normal use.

ΕN



Issuing Date: 29-July-2008 Revision Date: 01-November-2015 Version: 4 SDS No: SP6-01-EUUSOTHER

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Personal protective equipment Not normally required. For use other than in normal operating procedures (such as in the event of large spill), the following should be applied:

Eye Protection None under normal use.

Hand Protection None under normal use. In case of prolonged contact wear protective gloves.

Skin and body protection None under normal use. Respiratory protection None under normal use.

Environmental Exposure Controls Not normally required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Film Physical state Color Black Odorless Odor

Odor Threshold No information available

Not applicable Melting point/freezing point 250 °C Film Initial boiling point and boiling range Not applicable Flash Point Not applicable Evaporation rate Not applicable Flammability (solid, gas) Not applicable

Upper/lower flammability or explosive

Vapor pressure Not applicable Vapor density Not applicable Relative density 1.4 (H₂O=1) Film Solubility(ies) Insoluble (water) Partition coefficient: n-octanol/water No information available No information available Auto-ignition temperature

Viscosity

Explosive properties

Decomposition temperature

No information available Oxidizing properties

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No information available.

10.2 Chemical stability Stable.

10.3 Possibility of hazardous

reactions

No information available.

No information available

No information available

Not applicable

Not explosive

10.4 Conditions to avoid Keep at a temperature not exceeding 200 °C. Avoid friction, sparks, or other means of ignition.

10.5 Incompatible materials Strong oxidizing agents.

10.6 Hazardous decomposition

products

Contains: Carbon monoxide (CO). Carbon dioxide (CO₂).



Issuing Date: 29-July-2008 Revision Date: 01-November-2015 Version: 4 SDS No: SP6-01-EUUSOTHER

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Inhalation No information available. Eye contact No information available. Skin contact No information available. Ingestion No information available.

Skin corrosion/irritation No information available.

No information available. Serious eye damage/irritation

Respiratory or skin sensitisation No information available.

Mutagenicity No information available.

Carbon Black: In 1996, the IARC re-evaluated carbon black as a Group 2B carcinogen (possible Carcinogenicity

> human carcinogen). This classification is given to chemicals, for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats did not show any association between carbon black and lung

tumors.

Other ingredients of this product have not been classified as carcinogens according to IARC

monographs, NTP and OSHA.

SECTION 12: Ecological information

12.1 Toxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other
			aquatic invertebrates
Carbon Black			EC ₅₀ : >5600 mg/L 24 h
1333-86-4			(Daphnia magna)

12.2 Persistance and degradability No information available.

12.3 Bioaccumulative potential No information available.

12.4 Mobility in soil No information available.

12.5 Results of PBT and vPvB

assessment

This product contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This product contains no substance considered to be very persistent nor very bioaccumulating

(vPvB).

12.6 Other adverse effects No information available.



Issuing Date: 29-July-2008 Revision Date: 01-November-2015 Version: 4 SDS No: SP6-01-EUUSOTHER

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SECTION 13: Disposal considerations

13.1 Waste treatment methods Dispose of in accordance with Federal, State, and local regulations.

SECTION 14: Transport information

Not classified as hazardous for transport

14.1 UN Number None

14.2 UN proper shipping name None

14.3 Transport hazard class(es) None

14.4 Packing Group None

14.5 Environmental hazards None

14.6 Special precautions for user None

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code

Not applicable

Not regulated under DOT, IMDG, ADR, RID, IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1 Safety, health and environmental EU:Not classified as dangerous for supply/use. (1999/45/EC)

USA: All chemical substances contained in this product are and had been listed on the TSCA Chemical Substances Inventory, and none is subject to any of the following TSCA requirements: section 4 test rules; proposed or final section 5(a)(2) significant new use rules; section 5(e) consent orders; section 8(a) preliminary assessment information rules; and section 8(d) health and safety data reporting rules.

Canada: WHMIS: Not applicable. (Manufactured article)

15.2 Chemical Safety Assessment No.

ΕN



Issuing Date: 29-July-2008 Revision Date: 01-November-2015 Version: 4 SDS No: SP6-01-EUUSOTHER

Product name: PC-401, PC-402RF, PC-404RF, PC-451, PC-501, PC-551, PC-70, PC-71RF, PC-72RF, PC74RF, PC-75 ink film

SECTION 16: Other information

Full text of R-phrases referred to

under sections 2 and 3

None

Full text of H-Statements referred to

under sections 2 and 3

None

Additional information The information relates only to this product. It may not be valid, if used in combination with any other

materials or in any other process, and it is based on our best knowledge as of the date of preparation

(revision).

Revision Note SECTION 3

References: U.S. 29CFR Part 1910

ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological

Exposure Indices

IARC Monographs on the Evaluation Carcinogenic Risks to Humans World Health Organization

EU Directive 91/322/EEC and 2000/39/EC

NTP 11th Report on Carcinogens

Abbreviations: ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International carriage of Dangerous goods by Road (EU)

DOT: Department Of Transportation (US)

IARC: International Agency for Research on Cancer IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods

NOHSC: National Occupational Health and Safety Commission (Australia)

NTP: National Toxicology Program (US)

OSHA: Occupational Safety and Health Administration (US)

PEL: Permissible Exposure Limit

RID: Regulations concerning the International carriage of goods by Rail (EU)

STEL: Short Term Exposure Limit TLV: Threshold Limit Value (ACGIH) TSCA: Toxic Substances Control Act (US)

TWA: Time Weighted Average

WHMIS: Workplace Hazardous Material Information System (Canada)