

Product Name

Issue Date : Dec. 25 2003

OPC Belt

MSDS No. : HOPC03001

Section 1 - Chemical product and company identification

Product name: OP-1CL, OP-2CL, OP-3CL and OP-4CL

These products are organic photoconductor belt for Brother Industries, Ltd. color laser printers.

Manufacturer: Brother Industries, Ltd.
Information & Document Company
1-1-1, Kawagishi, Mizuho-ku, Nagoya 467-8562, Japan
Telephone (for information): +81-52-824-2545

Importer in USA: Brother International Corporation
100 Somerset Corporate Boulevard, P.O. Box 6911, Bridgewater, NJ 08807-0911, USA
Telephone (for information): 800-284-4329

Importer in Canada: Brother International Corporation (Canada) Ltd.
1 Hotel De Ville, Dollard des Ormeaux, Quebec, H9B 3H6, Canada
Telephone (for information): 514-685-0600

Importer in 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 in Australia: Brother International (Aust.) Pty. Ltd. ACN 001 393 835
7 Khartoum Road, North Ryde, N.S.W. 2113, Australia
Telephone (for information): 02-9887-4344

We do not provide 24 hour cover for information contact.

Please telephone to the above office appropriate to you during our business hours.

Section 2 - Composition / information on ingredients

Chemical name: Organic photoconductor belt does not correspond to "Chemical" but to "Article".

Composition/information:

CAS#	Ingredients	%Wt.
—	Aluminum	< 1
—	Binder resin	10
—	Photosensitive material	10
—	Polyethylene terephthalate	80

Section 3 - Hazards identification

Emergency Overview:

Green, odorless and solid film, none hazardous product

Product Name

Issue Date : Dec. 25 2003

OPC Belt

MSDS No. : HOPC03001

Potential health effects:

Based on animal testing, this product is presumed to be no health effects.

Section 4 - First aid measures

In case of inhalation:

No inhalation in normal use. If exposed to the dust of photoconductive layer, get medical attention if cough or other symptoms develop.

In case of skin contact:

None treatment is required. If exposed to much of the dust of photoconductive layer, wash out with water.

In case of eye contact:

No eye contact in normal use. If exposed to the dust of photoconductive layer, flush eyes with water. Get medical attention, if feels irritation.

In case of ingestion:

No ingestion in normal use. If swallowed the dust of photoconductive layer, induce vomiting as much as possible. Get medical attention, if feels something bad.

Section 5 - Fire fighting measures

Extinguishing media:

CO₂, dry chemical, foam or water

Special fire-fighting procedures:

None

Section 6 - Accidental release measures

Personal precautions:

None required under normal use.

Environmental precautions:

None required under normal use.

Methods for cleaning up:

No special precautions required in collection.

Section 7 - Handling and storage

Handling:

No special precaution. Do not touch the photoconductive layer directly. Avoid exposing to organic solvent vapor or sunlight in order to prevent degradation.

Product Name

Issue Date : Dec. 25 2003

OPC Belt

MSDS No. : HOPC03001

Storage:

Store in normal temperature, normal humidity and dark place. Avoid dew condensation and organic solvent vapor.

Section 8 - Exposure controls / personal protection

Occupational exposure limit:

ACGIH (TLV): Not established

OSHA (PEL): Not established

Engineering Measures:

Not required.

Personal protective equipment:

Respiratory protection: None required

Eye protection: No precautions (If necessary, use safety glasses.)

Skin protection: No precautions

Section 9 - Physical and chemical properties

Appearance and odor: Green, odorless and solid film

Density: 1.4

Vapor density:

Not applicable

Boiling point: Not applicable

pH:

Not applicable

Melting point: Not available

LOG P_{o/w}:

Not applicable

Vapor pressure: Not applicable

Solubility in water:

Insoluble

Solubility in other solvent: Photoconductive layer is soluble in organic solvent like Tetrahydrofuran.

Flash point: Not applicable

Autoignition temperature: Not applicable

Flammable limits: Not applicable

Section 10 - Stability and reactivity

Stability and reactivity:

Stable

Materials to avoid:

Oxidizing material

Hazardous decomposition products:

None

Section 11 - Toxicological informationAcute toxicity: Oral (rat) LD50: >2000mg/kg ¹⁾ (Photoconductive layer)

Skin (rabbit) LD50: Not available

Skin irritation: No skin irritation was noted in two week rat dermal toxicity study. ²⁾ (Photoconductive layer)Eye irritation: No eye irritation was noted on the eyes of rabbits. ³⁾ (Photoconductive layer)

Sensitizing: Not available

Product Name

Issue Date : Dec. 25 2003

OPC Belt

MSDS No. : HOPC03001

Chronic toxicity: Not available

Mutagenicity: Negative in Ames test. ⁴⁾ (Photoconductive layer)

Carcinogenicity: IARC/ACGIH/NTP Not available

Reproductive toxicity: Not available

Section 12 - Ecological information

No data available

Section 13 - Disposal considerations

Any disposal practice should be done under conditions which meet local, state and federal laws and regulations relating to waste (contact local or state environmental agency for specific rules).

Section 14 - Transportation information

UN hazard class: None allocated

UN number: None

Section 15 - Regulatory information

This product does not fall in the category of the regulations and others of section 6 and 7 of TSCA (Toxic Substance Control Act).

Section 16 - Other information

Key data sources:

- 1) Test data of Mitsubishi Chemical Safety Institute Ltd.
- 2) Test data of Mitsubishi Chemical Safety Institute Ltd.
- 3) Test data of Mitsubishi Chemical Safety Institute Ltd.
- 4) Test data of General Testing Reserch Center, Japan Oilstuff Inspectors' Corporation

This document is based on our knowledge at the time of preparation. While Brother Industries, Ltd. believes that the data contained herein are accurate, many of the data have been derived from outside sources and we cannot assume any liability as to the accuracy of the data. They are offered solely for your information.

This document covers only normal conditions of use and handling. When using product under unintended conditions, user is responsible to examine proper precautions for any particular use.