

# MATERIAL SAFETY DATA SHEET

DATE PREPARED : November 12, 2001

## 1. PRODUCT & COMPANY IDENTIFICATION

### [PRODUCT NAME]

OP-1CL OPC Belt, OP-2CL OPC Belt, OP-3CL OPC Belt  
(Organic Photoconductor)

### [COMPANY IDENTIFICATION]

SUPPLIER: Brother Industries, Ltd.  
1-1-1, Kawagishi, Mizuho-ku, Nagoya 467-8562, Japan  
Telephone: +81-52-824-2545

MANUFACTURER: Hitachi Taga Electronics Co., Ltd.  
1-1 Higashitaga-cho 1-chome, Hitachi-shi, Ibaraki-ken 316-8502, Japan  
Telephone: +81-294-36-8754  
Fax: +81-294-36-8979

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### [COMPOSITION/INFORMATION]

<u>Ingredients</u>	<u>CAS No.</u>	<u>Proportion</u>
Aluminium		<1%
Binder resin		10%
Photosensitive material		10%
Polyethylene Terephthalate		80%

## 3. HAZARDS IDENTIFICATION

### [EMERGENCY OVERVIEW]

Green, odorless and solid film. None hazardous product.

### [POTENTIAL HEALTH EFFECTS]

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

## 4. FIRST-AID MEASURES

- 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.
- SKIN CONTACT None treatment is required. If exposed to much of the dust of photoconductive layer, wash out with water.
- INHALATION No inhalation in normal use. If exposed to the dust of photoconductive layer, get medical attention if cough or other symptoms develop.
- 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.

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### 5. FIRE-FIGHTING MEASURES

- EXTINGUISHING MEDIA : CO2, Dry chemical, Foam or Water
- SPECIAL FIRE-FIGHTING PROCEDURES : None

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### 6. ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS : None required under normal use.
- ENVIRONMENTAL PRECAUTIONS : None required under normal use.
- METHODS FOR CLEANING UP : Collet. No special precautions required in collection.

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### 7. HANDLING & STORAGE

- HANDLING : No special precaution. Do not touch the photoconductive layer directly, expose to organic solvent vapor or sunlight to prevent degradation.
- STORAGE : Store in normal temperature, normal humidity and dark place. Avoid dew condensation, organic solvent vapor.

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### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

- OCCUPATIONAL EXPOSURE LIMIT : ACGIH Not established.  
OSHA Not established.
- ENGINEERING MEASURES : Not required.
- PERSONAL PROTECTIVE EQUIPMENT :
  - RESPIRATORY PROTECTION : None required.
  - EYE PROTECTION ; Use safety glass.
  - SKIN PROTECTION ; No precautions.

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### 9. PHYSICAL & CHEMICAL PROPERTIES

- APPEARANCE AND ODOR : Green, odorless and solid film.
- DENSITY : 1.4
- BOILING POINT : n. a.
- MELTING POINT : Not available
- VAPOUR PRESSURE : n. a.
- SOLUBILITY IN WATER : Insoluble
- SOLUBILITY IN OTHER SOLVENT : Photoconductive layer is soluble in organic solvent like Tetrahydrofuran.
- FLASH POINT : n. a.
- AUTOIGNITION TEMPERATURE : n. a.
- FLAMMABLE LIMITS : n. a.

\* n. a. :not applicable

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### 10. STABILITY & REACTIVITY

- STABILITY & REACTIVITY : Stable
  - MATERIALS TO AVOID : Oxidizing material
  - HAZARDOUS DECOMPOSITION PRODUCTS : None
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### 11. TOXICOLOGICAL INFORMATION

- ACUTE TOXICITY : oral (rat) LD<sub>50</sub> >2,000mg/kg<sup>1)</sup> (Photoconductive layer)  
skin (rabbit) LD<sub>50</sub> not available
  - SKIN IRRITATION : No skin irritation was noted in the two week rat dermal toxicity study.<sup>2)</sup> (Photoconductive layer)
  - EYE IRRITATION : No eye irritaion was noted on the eyes of rabbits.<sup>3)</sup> (Photoconductive layer)
  - SENSITIZING : Not available.
  - CHRONIC TOXICITY : Not available.
  - MUTAGENICITY : Negative in the Ames test.<sup>4)</sup> (Photoconductive layer)
  - CARCINOGENICITY : IARC ; , ACGIH ; , NTP ; Not available.
  - REPRODUCTIVE TOXICITY : Not available.
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### 12. ECOLOGICAL INFORMATION

No data available.

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### 13. DISPOSAL CONSIDERATION

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).

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### 14. TRANSPORT INFORMATION

UN Haz. Class : None allocated.

UN Number : None

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### 15. REGULATORY INFORMATION

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

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### 16. OTHER INFORMATION

[MSDS STATUS] No specific notes.

#### [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
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