

# MATERIAL SAFETY DATA SHEET

DATE PREPARED: Oct 14, 2003  
DATE REVISED: Aug. 12, 2005

## 1. PRODUCT & COMPANY IDENTIFICATION

[PRODUCT NAME]

**Organic Photoconductor for EMPI56**

[COMPANY IDENTIFICATION]

SUPPLIER

Name; Ricoh Printing Systems America, Inc.

Address: 2635-A Park Center Drive, Simi Valley, CA, 93065

Telephone: 805-578-4000 Facsimile: 805-578-4005

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

[COMPOSITION / FORMATION]

<u>Ingredients</u>	<u>CAS No.</u>	<u>Proportion</u>
Aluminum	7429-90-5	< 1%
Binder resin		< 15%
Photosensitive material		< 5%
Polyethylen Terephthalate	2.5038-59-9	>79%

## 3. HAZARDS IDENTIFICATION

[EMERGENCY OVERVIEW]

Dark green, odorless and solid film. Non 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 : CO<sub>2</sub>, 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 : Collect. 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 : Dark green,, odorless and solid cylinder.
- DENSITY : 2.7
- 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. T
- FLASH POINT : n.a.
- AUTOIGNITION TEMPERATURE : n.a.
- FLAMMABLE LIMITS : n.a.

\* n.a.: not applicable

**10. STABILITY & REACTIVITY**

- STABILITY & REACTIVITY : Stable
- MATERIALS TO AVOID : Oxidizing material
- HAZARDOUS DECOMPOSITION PRODUCTS : None

**11. TOXICOLOGICAL INFORMATION**

- ACUTE TOXICITY : oral (rat) LDLo >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 : Reversible eye irritation potential to 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.

**12. ECOLOGICAL INFORMATION**

No data available.

**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).

**14. TRANSPORT INFORMATION**

UN Haz. Class :None allocated. UN Number : None

**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).

**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 Research Center, Japan Oilstuff Inspectors' Corporation