



MINOLTA

MATERIAL SAFETY DATA SHEET

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Products Name: PHOTOCONDUCTOR

MSDS No.: DPS-0012

Date Printed: 29-Jan-2001

Date Prepared: 2-Jan-2001

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: PHOTOCONDUCTOR

used for: EP550Z, EP570Z, EP650Z, EP850, EP870

Supplier Identification:

Minolta Business Equipment (CANADA) Ltd.

369 Britannia Road East Mississauga, Ontario L4Z 2H5

Telephone: (905)890-6600

Facsimile: (905)890-8997

Emergency Telephone No.

Contact your regional poison control center.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients:

Chemical Name: Arsenic triselenide (< 3%)

CAS No.: 1303-36-2

EEC-No.: 215-119-5

OSHA Z-Tables(USA): *0.5mg/m3

ACGIH-TLV(USA): *0.2mg/m3

NTP(USA): Not listed

IARC Monographs: Not listed

Symbol(EC): Not listed

R-Phrase(EC): Not listed

DFG-MAK(EC): Not listed

Major Ingredients:

[Generic Name]	[CAS No.]	[%]
Substrate		>97
Aluminum drum	+++	
Coating layer		< 3
Arsenic triselenide	1303-36-2	

+++ : Supplier's confidential information



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3. HAZARDS IDENTIFICATION

Arsenic triselenide is a hard vitreous substance. When coated, it strongly adheres to an aluminum substrate, so there is no hazard as long as the drum is used as intended.

Most Important Hazards and Effects of the Products

For Human Health: No symptoms expected with intended use.

For the Environment: No data are available on the adverse effects of this product on the environment.

For Others: None

Specific Hazards: None

4. FIRST-AID MEASURES

Symptoms of Overexposure: No symptoms expected with intended use.

Routes of Entry: None

Information

Inhalation: No treatment is required.

Skin Contact: No treatment is required.

Eye Contact: No treatment is required.

Ingestion: No treatment is required.

Note to Physician: None

Further Information: None

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO₂, water, foam and dry chemical

Extinguishing Media to Avoid: None

Special Firefighting Procedures: None

Fire and Explosion Hazards: This material has no unusual fire or explosive hazards.

Protection of Firefighters: No special equipment is required.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Not applicable with intended use.

Environmental Precautions: Not applicable with intended use.

Methods for Cleaning Up: Not applicable with intended use.

Further Information: None



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7. HANDLING AND STORAGE

Handling

Technical Measures: None

Precautions: This product will be scorched in the case of fire.

Safe Handling Advice: None.

Storage

Technical Measures: None

Storage Conditions: Keep and Store in a cool and dry place.

Incompatible Products: None

Packing Materials: Cardboard box designated by Minolta.

Further Information: None

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures

Ventilation: None required with intended use.

Control Parameters

OSHA-PEL(USA): Not Applicable ACGIH-TLV(USA): Not Applicable

DFG-MAK(EC): Not Applicable Worksafe-TWA(Austl): Not Applicable

Personal Protective Equipment

Respiratory protection: None required when used as intended in Minolta equipment.

Hand Protection: None required when used as intended in Minolta equipment.

Eye protection: None required when used as intended in Minolta equipment.

Skin Protection: None required when used as intended in Minolta equipment.

Other: None

Hygiene Measures: Wash hands after handling.

Further Information: None



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Solid Form: Cylinder Color: Dark silver
Odor: Odorless

<<Results of the coated compounds on the aluminum substrate.>>

Boiling Point: Not applicable

Melting/Softening Point: 355 - 365

Flash Point: Not applicable

pH: Not applicable

Explosion Properties: Not applicable

Density(g/cm³): 4.8 - 5.8

Solubility in water: insoluble

Flammability: Not applicable

Oxidizing Properties: No data available

Ignition Temperature(°C): No data available

Vapor Pressure: Not applicable

Partition Coefficient, n-Octanol/Water: Not applicable

(* = Based on data for other Minolta Products with similar ingredients)

10. STABILITY AND REACTIVITY

Stability: Stable [X] Unstable []

Hazardous Reactions: None

Conditions to avoid: None

Materials to Avoid: None

Hazardous Decomposition Products: CO, CO₂

Further Information: None

11. TOXICOLOGICAL INFORMATION

Health Effects from Exposure: No symptoms expected with intended use.

Toxicological Data

<<Result of the coated compounds on the aluminum substrate.>>

Acute Toxicity:

Inhalation, LC50(mg/l): Not applicable

Ingestion(oral), LD50(mg/kg): >5000 (Rats)

Dermal, LD50(mg/kg): Not applicable

Eye irritation: Not an irritant (Rabbits)

Skin irritation: Not an irritant (Rabbits)

Skin sensitizer: No data available

Mutagenicity: Negative (AMES test)



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Local Effects: No data available
Chronic Toxicity or Long Term Toxicity: None
Carcinogenicity

IARC Monographs: Not listed

NTP(USA): Not listed

OSHA Regulated(USA): Not listed

(* = Based on data for other Minolta Products with similar ingredients)

12. ECOLOGICAL INFORMATION

Mobility: No data are available on the adverse effects of this material on the environment.

Persistence/Degradability: No data are available on the adverse effects of this material on the environment.

Bioaccumulation: No data are available on the adverse effects of this material on the environment.

Ecotoxicity

Behavior in Sewage Works: No data are available on the adverse effects of this material on the environment.

Aquatic Toxicity: No data are available on the adverse effects of this material on the environment.

Ecological Data(EC)

Csb Value(EC): No data are available on the adverse effects of this material on the environment.

AOX-Remark(EC): No data are available on the adverse effects of this material on the environment.

BsB5 Value(EC): No data are available on the adverse effects of this material on the environment.

Significant Components(EC): Not applicable

13. DISPOSAL CONSIDERATION

Appropriate Methods of Disposal

Preparation(community provisions):

Waste may be disposed or incinerated under conditions which meet all federal, state and local environmental regulations.

Contaminated Packaging:

Waste may be disposed or incinerated under conditions which meet all federal, state and local environmental regulations.



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14. TRANSPORT INFORMATION

Special Precautions: None

Information on Code and Classifications According to International Regulations

UN Classification: None

Land

RID(EC): None

ADR(EC): None

DOT(USA): None

Inland Waterways

ADNR(Rhine R.): None

Sea

IMDG: None

Air

ICAO-TI: None

IATA-DGR: None

15. REGULATORY INFORMATION

US Information

Information on the label: Not required

SARA(Superfund Amendments and Reauthorization Act) Title III

302 Extreme Hazardous Substance: None

311/312 Hazard Categories: None

313 Reportable Ingredients: None

California Proposition 65:

This product contains no chemical substances subject to California Proposition 65.

EU Information

Information on the label(88/379/EEC and 67/548/EEC):

Symbol & Indication: Not required

R-Phrase: Not required

S-Phrase: Not required



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16. OTHER INFORMATION

NFPA Hazard Rating: The National Fire Protection Agency(USA):

Health: 0 Flammability: 1 Reactivity: 0

HMIS RATING: The National Paint and Coating Association(USA):

Health: 0 Flammability: 1 Reactivity: 0

Recommended Uses:

Photoconductor for Electrophotographic Equipment

Restrictions:

Information on this data sheet represents our current data and the best opinion as to the proper use in handling of this product under normal conditions specified in our User's Manual. However, neither Minolta Co., Ltd. nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we do not guarantee that these are the only hazards which exist.

Literature References:

ANSI Z400.1-1993

TRGS 220: Sicherheitsdatenblatt für gefährliche Stoffe und Zubereitungen

ISO 11014-1

Commission Directive 91/155/EEC

The Material Safety Data sheet: A Practical Guide to First Aid:

Canadian Centre for Occupational Health and Safety's publication

HMIS IMPLEMENTATION MANUAL: National Paint & Coatings association