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Digital Imaging Company

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Material Safety Data Sheet

Page: 1 of 4

MSDS No.: 021-000378

Date : 21st January, 2003

SECTION 1 PRODUCT IDENTIFICATION

Product Name : OPC DRUM DQ-H045B for Panasonic Digital Copier Models DP-1510P,
DP-1810P, DP-1810F and DP-2010E
Product No. : OPC DRUM DQ-H045B

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENTS</u>	<u>CAS #</u>	<u>PROPORTION (% by wt.)</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OTHER LIMITS</u>
Aluminum alloy		94.0 - 98.0	Not applicable for drum	Not applicable for drum	None
Titanium dioxide	13463-67-7	0.3 - 0.8	Not applicable for drum	Not applicable for drum	None
Polycarbonate resin		0.5 - 2.0	Not applicable for drum	Not applicable for drum	None
Arylamine derivative		0.3 - 1.0	Not applicable for drum	Not applicable for drum	None

SECTION 3 HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW : Greenish blue colored aluminum cylinder, with no odor.

POTENTIAL HEALTH EFFECTS:

EYE EFFECTS : Not applicable.

SKIN EFFECTS : May be no irritant.

INGESTION EFFECTS : Not applicable route. May be low acute toxicity based
on animal testing.

INHALATION EFFECTS : Not applicable.

CHRONIC EFFECTS : Not identified.

MEDICAL CONDITIONS GENERALLY KNOWN TO BE AGGRAVATED BY EXPOSURE:
Not identified.

SECTION 4 FIRST AID MEASURES

EYE CONTACT : Not applicable.
SKIN CONTACT : Wash with soap and water. If irritation persists, obtain medical advice.
INHALATION : Not applicable.
INGESTION : Not applicable.
NOTE TO PHYSICIANS : None

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Dry chemical, CO₂, Foam or water.
UNSUITABLE EXTINGUISHING MEDIA: None
SPECIAL FIRE FIGHTING PROCEDURES: None
UNUSUAL FIRE AND EXPLOSION HAZARDS: None
FLASH POINT (°C): Not applicable.
FLAMMABLE LIMITS : Not applicable.
AUTOIGNITION TEMPERATURE (°C): Not applicable.
FLAMMABILITY: Not applicable.
AUTOFLAMMABILITY: None
EXPLOSIVE PROPERTIES: None
OXIDIZING PROPERTIES: None
HAZARDOUS COMBUSTION PRODUCTS : CO, CO₂, NO_x
OTHER PROPERTIES: None

SECTION 6 ACCIDENTIAL RELEASE MEASURES

METHOD FOR CLEANING UP : Not applicable.
PERSONAL PRECAUTIONS : Not applicable.
ENVIRONMENTAL PRECAUTIONS : Not applicable.

SECTION 7 HANDLING AND STORAGE

HANDLING : None of safe handling advice.

STORAGE : Keep at temperature not exceeding 45 °C.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES : None.
ENGINEERING CONTROLS : Not required.
RESPIRATORY PROTECTION : Not required.
SKIN PROTECTION : Not required.
EYE/FACE PROTECTION : Not required.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Greenish blue colored aluminum cylinder
ODOR : No odor
pH : Not applicable
BOILING POINT (°C): Not applicable
MELTING POINT (°C): 100 °C or higher
DECOMPOSITION TEMPERATURE (°C): Not available
VAPOR PRESSURE (mm Hg.) : Negligible
VAPOR DENSITY (AIR = 1) : Not applicable
DENSITY/ SPECIFIC GRAVITY (H₂O=1) : Not available
SOLUBILITY IN WATER : Not soluble
FAT SOLUBILITY : Partially soluble in ketones, esters and aromatic solvents
PARTITION COEFFICIENT (n-Octanol/water) : Not soluble in water and n-octanol
PERCENT VOLATILE : Negligible
EVAPORATION RATE : Not applicable

SECTION 10 STABILITY AND REACTIVITY

STABILITY : This is a stable product.
CONDITIONS TO AVOID : None
MATERIALS TO AVOID : None
HAZARDOUS DECOMPOSITION PRODUCTS : CO, CO₂, NO_x
HAZARDOUS POLYMERIZATION : Will not occur.
CONDITIONS TO AVOID : None

SECTION 11 TOXICOLOGICAL INFORMATION

INHALATION : No data available.
INGESTION : Coating Layer: Rat, LD50: >2000mg/Kg
EYE : No data available.
SKIN : No data available.
SENSITIZATION : No data available.
MUTAGENICITY : Coating Layer: Ames Test: S. typhimurium): Negative
REPRODUCTIVE TOXICITY : Not available.
CARCINOGENICITY : Not available.

Others : None

SECTION 12 ECOLOGICAL INFORMATION

No information indicating any adverse ecological effects.

SECTION 13 DISPOSAL CONSIDERATION

METHOD OF DISPOSAL : Dispose under conditions which meet all federal, state and local environmental control regulations.

SECTION 14 TRANSPORT INFORMATION

UN # : None.

UN SHIPPING NAME : None.

UN CLASSIFICATION : None.

UN PACKING GROUP : None.

SPECIAL PRECAUTIONS : None.

SECTION 15 REGULATORY INFORMATION

EU INFORMATION :

INFORMATION ON THE LABEL: Not applicable.

SPECIFIC PROVISIONS IN RELATION OF MAN OR THE ENVIRONMENT: Not regulated.

USA INFORMATION :

INFORMATION ON THE LABEL: Not applicable.

SARA Title § 313 : Not applicable.

CARIFORNIA PROPOSITION 65: Not applicable.

SECTION 16 OTHER INFORMATION

None

Abbreviation:

"EU" stands for European union.

"OSHA PEL" stands for PEL (Permissible Exposure Limit) under Occupational safety and Health Administration.

"ACGIH TLV" stands for TLV (Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.

"IARC" stands for International Agency for Research on Cancer.

"NTP" stands for National Toxicology Program (USA).

Information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions.