

Panasonic Communications Co., Ltd.

Office Network Company

9-1 Hiraide Industrial Park, Utsunomiya City, Tochigi, 321-8502 Japan

TEL : Japan (0) 28-663-3285, FAX : Japan (0) 28-663-2398

Material Safety Data Sheet

Page: 1 of 3

MSDS No.: 021-000610

Date : 29 July, 2005

SECTION 1 PRODUCT IDENTIFICATION

Product Name : OPC Drum of UG-3220 Process Unit for Panasonic Facsimile machine
Model UF-490, UF-4000 and UF-4100

Product No. : OPC Drum of UG-3220 Process Unit

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>
Binder resin		45.4	Not applicable for drum	Not applicable for drum	None
Charge carrier transport material		36.4	Not applicable for drum	Not applicable for drum	None
Pigment		9.1	Not applicable for drum	Not applicable for drum	None
Under coat material		9.1	Not applicable for drum	Not applicable for drum	None

(Base: Aluminum)

SECTION 3 HAZARDOUS IDENTIFICATION

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

POTENTIAL HEALTH EFFECTS:

EYE EFFECTS : Not applicable under intended use.

SKIN EFFECTS : No corroding or irritating effect is expected at usual
use as a photosensitive drum.

INGESTION EFFECTS : Not applicable under intended use.

INHALATION EFFECTS : Not applicable under intended use.

CHRONIC EFFECTS : Not identified.

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

SECTION 4 FIRST AID MEASURES

EYE CONTACT : Flush with plenty of water

SKIN CONTACT : In case of contact, wash with soap and water.

INHALATION : If needed, get medical attention.

INGESTION : If needed, get medical attention.

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
OTHER PROPERTIES: None

SECTION 6 ACCIDENTIAL RELEASE MEASURES

METHOD FOR CLEANING UP : Not applicable under intended use.
PERSONAL PRECAUTIONS : Not applicable under intended use.
ENVIRONMENTAL PRECAUTIONS : Not applicable under intended use.

SECTION 7 HANDLING AND STORAGE

HANDLING : Prevent to touch by a hand directly.
STORAGE : Temperature: -20 to 30 °C
Humidity: 15 to 85%RH

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): No data available
VAPOR PRESSURE (mm Hg.) : No data available
VAPOR DENSITY (AIR = 1) : Not applicable
DENSITY/ SPECIFIC GRAVITY (H₂O=1) : No data available
SOLUBILITY IN WATER : Negligible
FAT SOLUBILITY : No data available
PARTITION COEFFICIENT (n-Octanol/water): No data available
PERCENT VOLATILE : No data available
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 : None
HAZARDOUS POLYMERIZATION : Will not occur.
CONDITIONS TO AVOID : None

SECTION 11 TOXICOLOGICAL INFORMATION

INHALATION : No data available.
INGESTION : No data available.
EYE : No data available.
SKIN : No data available.
SENSITIZATION : No data available.
MUTAGENICITY : No data available.
REPRODUCTIVE TOXICITY : No data available.
CARCINOGENICITY : No human carcinogen or potential carcinogen, according to IARC Monographs, NTP, OSHA(USA) regulation, California Proposition 65 and EU Directive.

Orters : 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

None.

SECTION 16 OTHER INFORMATION

None.

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.