

# Panasonic Communications Co., Ltd.

## Communication Network Company

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# Material Safety Data Sheet

Page: 1 of 4  
MSDS No.: 021-001007

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### SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME : Magenta Toner Cartridge for Panasonic Digital Color Imaging System,  
Model DP-C406, DP-C306, DP-C266, DP-C405, DP-C305 & DP-C265

PRODUCT NUMBER : DQ-TUV20M, DQ-TUV05M

### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	PROPORTION (% by wt.)	OSHA PEL	ACGIH TLV	OTHER LIMITS
♦ Styrene/butylacrylate copolymer		60 - 70	None established	None established	None
♦ Polyethylene		1 - 10	None established	None established	None
♦ Red pigment		1 - 10	None established	None established	None
♦ Amorphous silica		1 - 10	None established	None established	None
♦ Titanium dioxide		< 1	None established	None established	None
♦ Mn-Mg-Sr ferrite Powder		10 - 20	None established	None established	None

### SECTION 3 HAZARDOUS IDENTIFICATION

ADVERSE HUMAN HEALTH EFFECTS : There are no significant hazards associated with this Product.

PHYSICAL AND CHEMICAL HAZARDS : There are no significant hazards associated with this Product.

ENVIRONMENTAL EFFECTS : There are no significant hazards associated with this Product.

### SECTION 4 FIRST AID MEASURES

EYE CONTACT : Flush with a large amount of water for at least 15 minutes. Seek medical advice.

SKIN CONTACT : Wash with soap and water.

INGESTION : Rinse mouth with Water. Give several glasses of water to drink and seek medical advice.

INHALATION : Remove from exposure and provide fresh air. Rinse mouth with water.

### SECTION 5 FIRE FIGHTING MEASURES

SPECIFIED METHOD : In case of fire use extinguishing media.  
When in a machine, treat as an electrical fire.

EXTINGUISHING MEDIA : Water spray, Foam, Dry, chemicals, CO<sub>2</sub>

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Shut off ignition sources. For small spills, sweep up or soak up with damp cloth. For large spills, wear proper protective equipment and place waste material in closed container.  
Dispose of in accordance with national and local regulations.

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**SECTION 7 HANDLING AND STORAGE**

HANDLING : Do not incinerate toner or a toner cartridge. Do not disassemble a cartridge.  
STORAGE : Keep in cool, and dry and well-ventilated area. Keep out of reach of children.

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**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

CONTROL PARAMETER ACGIH TLV : 10mg/m<sup>3</sup>(Total)  
3mg/m<sup>3</sup>(Respirable)

PRECAUTIONARY MEASURES :

None required when used as intended in PCC equipment.  
For use other than normal customer operating procedures (such as in bulk toner processing facilities), local exhaust ventilation may be required.

PERSONAL PROTECTIVE EQUIPMENT :

None required when used as intended in PCC equipment.  
For use other than normal customer operating procedures (such as in bulk toner processing facilities), protective gloves, goggles and respirators may be required.

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE/ODOR : Red powder/Faint odor  
BOILING POINT(°C): Not applicable  
Volatile(%): Not applicable  
SPECIFIC GRAVITY (H<sub>2</sub>O=1): 1  
SOLUBILITY IN WATER : Negligible  
VAPOR PRESSURE : Not applicable  
SOFTENING POINT(°C): 85-100°C  
INITIAL BOILING POINT : Not applicable  
OTHER DATA : None

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**SECTION 10 STABILITY AND REACTIVITY**

FLASH POINT(°C): Not applicable  
AUTO-IGNITION TEMPERATURE : Not applicable  
EXPLOSION LIMIT : Not applicable  
FLAMMABILITY : Not flammable under conditions of use  
SPONTANEOUS COMBUSTIBILITY/REACTIVITY WITH WATER : None  
SELF-REACTIVITY/EXPLOSIVE : None  
DUST EXPLOSIVE : Like most organic materials in powder form, it can form explosive mixtures when dispersed in air.  
STABILITY AND REACTIVITY : Stable  
OTHER DATA : None

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**SECTION 11 TOXICOLOGICAL INFORMATION**

SKIN CORROSIVE : None  
SKIN IRRITANT(RABBIT): Not an irritant <sup>1)</sup>  
EYE IRRITANT(RABBIT): Not an irritant <sup>1)</sup>  
HUMAN PATCH : Not available  
SENSITIZATION : Skin(guinea-pig) : Not a sensitizer<sup>1)</sup>  
ACUTE TOXICITY : Swallowed : LD50(rat): >5000mg/kg<sup>1)</sup>  
(practically non-toxic)  
Skin : LD50(rabbit): >5000mg/kg<sup>1)</sup>  
(practically non-toxic)  
Inhaled : LC50(rat): >4.1mg/L/4hr<sup>1)</sup>  
(practically non-toxic)

Chronic Toxicity :

The results obtained from a PCC sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest(1mg/m<sup>3</sup>) exposure level(i.e. the level most relevant to potential human exposure).

A very slight degree of fibrosis was noted in 25% of the animals at the middle (4mg/m<sup>3</sup>)exposure level, while a slight degree of fibrosis was noted in all the animals at the highest(16mg/m<sup>3</sup>)exposure level. These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for prolonged period. This study was conducted using a special test toner to comply with EPA testing protocol.

The test toner was ten times more respirable than commercially available PCC toner, and would not be functionally suitable for PCC equipment.<sup>1)</sup>

CARCINOGENICITY : Not classified as "Carcinogens<sup>ref.1</sup>".

MUTAGENICITY : Ames Assay: Negative<sup>1)</sup>

REPRODUCTION AND DEVELOPMENT :

Not classified as "Reproductive and Development Chemicals"<sup>ref.2</sup>.

*1) This information is based on toxicity data for similar materials and ingredients.*

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**SECTION 12 ECOLOGICAL INFORMATION**

BIODEGRADABILITY : Not available.

BIOACCUMULATION : Not available.

ACUTE TOXICITY : 96hours LC50 :>500mg/L<sup>1)</sup> (practically non-toxic)  
48hours EC50(daphnia):>100mg/L<sup>1)</sup> (practically non-toxic)

OTHER INFORMATION : None

*1) This information is based on toxicity data for similar materials and ingredients.*

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**SECTION 13 DISPOSAL CONSIDERATION**

Dispose of in accordance with national and local regulations.

**SECTION 14 TRANSPORT INFORMATION**

Transport in accordance with national and local regulations.

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**SECTION 15 REGULATORY INFORMATION**

Ensure this product is in compliance with national requirements and ensure conformity to local regulations.

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**SECTION 16 OTHER INFORMATION**

The above mentioned data correspond to our present state of knowledge and experience, but no warranty is made. Users should consider these data only as a supplement to other information and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of the materials and safety and health of employees and customers.

References :

- 1: ♦IARC Monographs on the Evaluation Carcinogenic Risks to Humans(WHO. International Agency for Research on Cancer)
    - ♦National Toxicology Program(NTP)Report on Carcinogens(NTP)
    - ♦TLVs and BEIs (American Conference of Governmental Industrial Hygienists)
    - ♦Council Directive 67/548/EEC on the approximation of the laws, regulations, and administratives provisions relating to the classification, packing and labelling of dangerous substances;Annex1(EU)
    - ♦Journal of Occupational Health(Japan Society for Occupational Health)
  
  - 2: ♦Council Directive 67/548/EEC on the approximation of the laws, regulations, and administratives provisions relating to classification, packing and labelling of dangerous substaces; Annex1(EU)
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