
EU MATERIAL SAFETY DATA SHEET (1/4)

PRODUCT NAME: YELLOW TONER
PART No.: PFIA1007YA

MSDS No.: MSDS-E-204
DATE REVISED: 1-Mar-10

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or preparation: YELLOW TONER (Preparation)

1.2. Use of the substance/preparation: Multi-Function-Printer KX-MC6000 series, DP-MC210 series
Toner cartridge KX-FATY503, KX-FATY508, DQ-TUA04Y
Drum Unit KX-FADC510, DQ-UHA10C

1-3. Company/undertaking identification

DISTRIBUTOR'S NAME:

DISTRIBUTOR'S ADDRESS:

A PERSON IN CHARGE:

TELEPHONE NUMBER:

1-4. Emergency telephone

(MANUFACTURER)

MANUFACTURER'S NAME: Panasonic System Networks Co., Ltd.

MANUFACTURER'S ADDRESS: 1471 Murata-Machi, Tosu, Saga, Japan

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL PRODUCT: Preparation

<u>Ingredients</u>	<u>EINECS No.</u>	<u>CAS No.</u>	<u>Proportion</u> (% by wt.)	<u>SYMBOLS/R-PHRASE</u>
Polyester resin	(+++)	(+++)	80-90%	Not required
Wax	(+++)	(+++)	4-8%	Not required
Charge control agent (+)	276-955-4	72869-85-3	0.5-3%	Not required
Organic pigment	(+++)	(+++)	3-8%	Not required
Silica (++)	272-697-1	68909-20-6	1-4%	Not required

(+): hydrogen bis[3,5-di-tert-butylsalicylato(2-)-O1,O2]chromate(1-)

(++): Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

(+++): Confidential information

3. HAZARD IDENTIFICATION

This preparation is not classified as dangerous according to Directive 1999/45/EC.

POTENTIAL HEALTH EFFECTS

EYES: Solid or dusts may cause irritation or corneal injury due to mechanical action.
SKIN CONTACT: Essentially nonirritating to skin.
SKIN ABSORPTION: Skin absorption is unlikely due to physical properties.
INGESTION: Oral toxicity is believed to be low. Considered to be physiologically inert.
INHALATION: Minimal irritation to respiratory track may occur.

4. FIRST AID MEASURES

Immediate medical attention is not required.

EYES: Flush eyes immediately with plenty of water for at least 15 minutes.
SKIN: Flush with plenty of water. Use soap.
INGESTION: If irritation or discomfort occurs, consult medical personnel.
INHALATION: Remove to fresh air. If effects occur, consult medical personnel.

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5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Water fog, foam, CO₂, dry chemical.

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS : None

SPECIAL EXPOSURE HAZARDS ARISING FROM THE SUBSTANCE OR PREPARATION ITSELF, COMBUSTION PRODUCTS, RESULTING GASES: The decomposition products are CO, CO₂ or NO_x.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: Wear full bunker gear including a positive pressure self-contained breathing apparatus in case of burning in large quantities.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Removal of ignition source, provision for sufficient ventilation/respiratory protection, control of dust, prevention of skin and eye contact.

ENVIRONMENTAL PRECAUTIONS: None

METHODS FOR CLEANING UP: Wipe off with paper or cloth.

7. HANDLING AND STORAGE

7.1. Handling

TECHNICAL MEASURES: None

PRECAUTIONS: None

SAFE HANDLING ADVICE: Try not to disperse the particles.

7.2. Storage

TECHNICAL MEASURES: None

STORAGE CONDITIONS: Keep container closed. Store in a cool and dry place.

7.3. Specific use(s)

The image formation of Type-KX-MC6020 series Color Laser MFP.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure limit values

CONTROL PARAMETERS (As total dust)

ACGIH-TLV(USA): 10mg/m³

(ACGIH: American Conference of Government Industrial Hygienists)

<u>Ingredients</u>	<u>EINECS No.</u>	<u>CAS No.</u>	Proportion	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
			<u>(% by wt.)</u>		
Charge control agent (+)	276-955-4	72869-85-3	0.5-3%	0.5mg/m ³	0.5mg/m ³
Silica (++)	272-697-1	68909-20-6	1-4%	15mg/m ³	10mg/m ³

Polyester resin/Wax/Organic pigment are not listed.

8.2. Exposure controls

8.2.1 Occupational exposure controls

8.2.1.1. Respiratory protection: No precautions should be needed under normal use.

8.2.1.2. Hand protection: No precautions should be needed under normal use.

8.2.1.3. Eye protection: No precautions should be needed under normal use.

8.2.1.4. Skin protection: No precautions should be needed under normal use.

OTHER: For use other than normal customer-operating procedures (such as in bulk toner processing facilities), goggles and respirators may be required.

8.2.2. Environmental exposure control: No precautions should be needed under normal use.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

APPEARANCE: Yellow fine powder

ODOR: None

9.2. Important health, safety and environmental information

pH:	N.A.(not applicable)	RELATIVE DENSITY:	1. 2(g/cm ³)
BOILING POINT:	N.A.(not applicable)	WATER SOLUBILITY	Negligible
FLASH POINT:	No data available	FAT SOLUBILITY:	No data available
FLAMMABILITY:	No data available	PARTITION COEFFICIENT:	No data available
EXPLOSIVE PROPERTIES	No data available	VISCOSITY:	No data available
OXIDISING PROPERTIES:	No data available	VAPOUR DENSITY:	N.A.(not applicable)
VAPOUR PRESSURE:	N.A.(not applicable)	EVAPORAYION RATE:	N.A.(not applicable)

9.3. Other information

PARTICLE SIZE: 5-15 (μ m)
SOFTENING POINT: 100-150 (°C)

BULK DENSITY: 0.4 (g/cm³)

10. STABILITY AND REACTIVITY

10.1. Conditions to avoid: None

10.2. Materials to avoid: None

10.3. Hazardous decomposition products: CO, CO₂ or NO_x (by high heat and fire)

11. TOXICOLOGICAL INFORMATION

HEALTH EFFECTS FROM EXPOSURE: No symptoms expected with intended use.

TOXICOLOGICAL DATA

ACUTE TOXICITY

ORAL TOXICITY: LD₅₀ > 2000mg/kg(Rat) (++)
EYE IRRITATION: No Data
SKIN IRRITATION: NON-IRRITANT(Rabbit) (++)
SKIN SENSITISATION: NON-SENSITIVE(Guinea Pig) (++)
INHALATION TOXICITY: No Data
(++):Data of similar material with same ingredients

MUTAGENICITY: NON-MUTAGENIC(Ames Test)

OTHER INFORMATION

CHRONIC TOXICITY

In a study in rats by chronic inhalation to typical toner, mild to moderate degree of lung fibrosis was observed in 92% of rats in high concentration(16 mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle(4mg/m³) exposure group. But no pulmonary change was reported in the lowest(1mg/m³) exposure group, which the most relevant level to potential human exposures.

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12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

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

12.2. Mobility

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

12.3. Persistence and degradability

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

12.4. Bioaccumulative potential

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

12.5. Other adverse effects

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

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Waste must be disposed of in accordance with country and local environmental control regulations. Incineration is preferred method.

14. TRANSPORT INFORMATION

TRANSPORT INFORMATION: This is not a hazardous product.
UN No.: None allocated.

15. REGULATORY INFORMATION

This preparation is not classified as dangerous according to Directive 67/548/EEC ,1999/45/EC and 76/769/EEC.

16. OTHER INFORMATION

USER'S RESPONSIBILITY

This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation must be examine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin must be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.