
MATERIAL SAFETY DATA SHEET (1/4)

PRODUCT NAME: YELLOW TONER
PART No.: PFIA1007YA

MSDS No.: MSDS-I-204-H
DATE REVISED: 1-Mar-10

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTIFICATION: YELLOW TONER

USED FOR: Multi-Function-Printer KX-MC6000 series,DP-MC210 series
Toner cartridge KX-FATY503,KX-FATY508,DQ-TUA04Y
Drum Unit KX-FADC510,DQ-UHA10C

PART No.: PFIA1007YA

DISTRIBUTOR'S NAME:

DISTRIBUTOR'S ADDRESS:

TELEPHONE NUMBER:

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>CAS No.</u>	<u>Proportion</u> (% by wt.)	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Polyester resin	+++	80-90%	Not listed	Not listed
Wax	+++	4-8%	Not listed	Not listed
Charge control agent	72869-85-3	0.5-3%	0.5mg/m ³	0.5mg/m ³
Organic pigment	+++	3-8%	Not listed	Not listed
Silica	68909-20-6	1-4%	15mg/m ³	10mg/m ³

+++ : Supplier's confidential information

3. HAZARD IDENTIFICATION

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

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

FLAMMABLE PROPERTIES

FLASH POINT: No data available

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

FIRE-FIGHTING EQUIPMENT: 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: None

ENVIRONMENTAL PRECAUTIONS: None

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

7. HANDLING AND STORAGE

HANDLING

TECHNICAL MEASURES: None

PRECAUTIONS: None

SAFE HANDLING ADVICE: Try not to disperse the particles.

STORAGE

TECHNICAL MEASURES: None

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

VENTILATION: None required with intended use

CONTROL PARAMETERS(As total dust)

ACGIH-TLV(USA): 10mg/m³

(ACGIH:American Conference of Government Industrial Hygienists)

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: No precautions should be needed under normal use.

HAND PROTECTION: No precautions should be needed under normal use.

EYE PROTECTION: No precautions should be needed under normal use.

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.

HYGIENE MEASURES: Wash hands after handling.

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Yellow fine powder	ODOR:	None
PARTICLE SIZE(μ m):	5-15	VAP PRESS:	N.A.
MELTING POINT($^{\circ}$ C):	No data available	VAP DENSITY:	N.A.
SOFTENING POINT($^{\circ}$ C):	100-150	SOL IN WATER:	Negligible
BOILING POINT($^{\circ}$ C):	N.A.(not applicable)	pH:	N.A.
FREEZING POINT($^{\circ}$ C):	N.A.	EXPLOSION PROPERTIES:	No data available
SP. GRAVITY(g/cm^3):	1.2	FLAMMABILITY:	No data available
BULK DENSITY(g/cm^3):	0.4		

10. STABILITY AND REACTIVITY

STABILITY: This is a stable product.

INCOMPATIBILITY: (SPECIAL MATERIALS TO AVOID) None

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂ or NO_x (by high heat and fire)

HAZARDOUS POLYMERIZATION: Will not occur.

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

MOBILITY: 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 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

TSCA: All chemical substances in this product comply with all applicable rules or orders under TSCA.

16. OTHER INFORMATION

NFPA Rating: Health = 1 Flammability = 1 Reactivity = 0
(NFPA: The National Fire Protection Agency (USA))

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.
