Panasonic System Networks Co., Ltd. Business Systems Business Unit Communication Products Business Unit

4-1-62 Minoshima, Hakata-ku, Fukuoka City 812-8531, Japan TEL : +81-(0)92-477-1821, FAX : +81-(0)92-477-1487

Material Safety Data Sheet

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SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME : Yellow Toner for Panasonic Color Laser Printer / Multi-Function Printer PRODUCT NUMBER : Toner Cartridge / KX-FATY503A, KX-FATY503E, KX-FATY508, KX-FATY508A, KX-FATY508A7, KX-FATY508E, KX-FATY508H, KX-FATY508X, KX-FATY463CN, KX-FATY468CN, DQ-TUA04Y, DQ-UR1Y, DQ-UR3Y, DQ-UR4Y, KX-CLTY1, KX-CLTY1B, KX-CLTY3, KX-CLTY4 Print Cartridge / KX-FACY483CN, KX-FACY488CN, DQ-UP1C, DQ-UP3C, KX-CLPC1, KX-CLPC3

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE or PREPA	ARATION :	Preparation	n		
		PROPORTION			
INGREDIENTS	CAS #	(% by wt.)	OSHA PEL	ACGIH TLV	OTHER LIMITS
• Polyester resin		70 - 85	None established	None established	None
• Yellow pigment		5 - 10	None established	None established	None
• Wax		4 - 8	None established	None established	None
• Amorphous silica	68909-20-6	< 3	80 mg/m3	10 mg/m3	None
\cdot Charge control agent		< 3	None established	None established	None
\cdot Charge control agent	72869-85-3	< 3	0.5 mg/m3	0.5 mg/m3	None

SECTION 3 HAZARDOUS IDENTIFICATION

POTENTIAL HEALTH EF EYES :	FECTS : 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.
CHRONIC EFFECTS :	Not aware of any health effects associated with toner under its intended use.
CARCINOGENICITY :	Not aware of any health effects associated with toner under its intended use.

SECTION 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.

SECTION 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.

SECTION 6 ACCIDENTIAL RELEASE MEASURES

PERSONAL PRECAUTIONS : None ENVIRONMENT PRECAUTIONS : None METHODS FOR CLEANING UP : Wipe off with paper or cloth.

SECTION 7 HANDLING AND STORAGE

None
None
Try not to disperse the particles.
None
Keep container closed. Store in a cool and dry place.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES :	News meaning devices intervaled was
VENTILATION :	None required with intended use.
CONTROL PARAMETERS (As tota	al dust):
ACGIH-TLV(USA):	10mg/m3
	(ACGIH : American Conference of Government Industrial
	Hygienists)
	nygieniscs/
PERSONAL PROTECTIVE EQUIPM	ENT :
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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Yellow fine powder ODOR : None PARTICLE SIZE (µm): 5 - 15 MELTING POINT (°C): No data available SOFTENING POINT (°C): 100 - 150 BOILING POINT (°C): Not applicable FREEZING POINT (°C): Not applicable SP. GRAVITY (g/cm3): 1.2 0.4 BULK DENSITY (g/cm3): VAPOR PRESSURE (mm Hg.): Not applicable VAPOR DENSITY (AIR = 1): Not applicable SOL IN WATER : Negligible pH : Not applicable EXPLOSION PROPERTIES: No data available FLAMMABILITY : No data available

SECTION 10 STABILITY AND REACTIVITY

STABILITY : INCOMPATIBILITY : HAZARDOUS DECOMPOSITION PRODUCTS : HAZARDOUS POLYMERIZATION : This is a stable product. (SPECIAL MATERIALS TO AVOID) None CO, CO2 or NOx (by high heat and fire) Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

HEALTH EFFECTS FROM EXPOSURE : No symptoms expected with intended use. TOXICOLOGICAL DATA : ACUTE ORAL TOXICITY : LD50(Rat): >2000 mg/kg ¹⁾ EYE IRRITATION : No Data SKIN IRRITATION : Non-irritant(Rabbit) ¹⁾ SKIN SENSITISATION : Non-sensitive(Guinea Pig) ¹⁾ INHALATION TOXICITY : No Data MUTAGENICITY : Ames test : Negative CHRONIC EFFECTS :

In study in rats (H. Muhle) by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m^3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m^3) exposure group. But no pulmonary change was reported in the lowest (1mg/m^3) exposure group, the most relevant level to potential human exposure.

CARCINOGENICITY :

No carcinogen or potential carcinogen, according to IARC Monographs, NTP, OSHA(USA) regulation and EU Directive.

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

SECTION 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.

SECTION 13 DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD :

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

SECTION 14 TRANSPORT INFORM	MATION
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TRANSPORT INFORMATION : This is not a hazardous product. UN No. : None allocated.

SECTION 15 REGULATORY INFORMATION

TSCA :

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

SECTION 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 examined 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.