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**SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE
AND OF THE COMPANY / UNDERTAKING**

PRODUCT NAME : Black Toner for Panasonic Multi-Function Printer, Models
KX-MC6015, KX-MC6020, KX-MC6255, KX-MC6260

PRODUCT NUMBER : KX-FATK504E, KX-FATK509E, KX-FATK509X, KX-FADK511E, KX-FADK511X

RECOMMENDED USE : Toner for electrophotographic printing apparatus

MANUFACTURER : Panasonic Corporation
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SECTION 2 HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW : Black fine powder, slight plastic odor.
Not a highly flammable, but when suspended in air, is
combustible as with most organic powders.

GHS CLASSIFICATION : Classification not possible

GHS LABEL ELEMENTS

PICTOGRAMS OR SYMBOLS : Not required

SIGNAL WORD : Not required

HAZARD STATEMENTS : Not required

OTHER HAZARDS : None

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE OR MIXTURE : Mixture

INGREDIENTS (Common Name)	PROPORTION (% by wt.)	CAS #	EC #	CLP Classification*
♦ Polyester resin	70 - 90	Trade secret	-	None
♦ Wax	1 - 10	Trade secret	-	None
♦ Carbon Black	1 - 10	1333-86-4	215-609-9	None
♦ Amorphous silica	1 - 5	68909-20-6	272-697-1	None
♦ Charge control agent-1	1 - 5	Trade secret	-	None
♦ Charge control agent-2	1 - 5	31714-55-3	250-774-0	None
♦ Organic pigment	1 - 5	Trade secret	-	None

* Full texts of Hazard Statements are listed in SECTION 16.

SECTION 4 FIRST AID MEASURES

INHALATION : Remove to fresh air. If effects occur, consult medical personnel.
INGESTION : Rinse mouth. If swallowed, drink 1-2 glasses of water and immediately induce vomiting. Get medical attention.
SKIN CONTACT : Wash after each contact. Get medical attention if symptoms is occur.
EYE CONTACT : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT : No data available.
FLAMMABLE LIMITS : No data available.
EXTINGUISHING MEDIA : Water fog, dry chemical, foam or CO₂.
UNSUITABLE EXTINGUISHING MEDIA : None
HAZARDOUS COMBUSTION PRODUCTS : Carbon monoxide, Carbon dioxide and Smoke.
FIRE-FIGHTING EQUIPMENT : Wear full bunker gear including a positive pressure self-contained breathing apparatus in case of burning in large quantities.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Minimize the release of particulates. Wear personal protective equipment.
Do not use vacuum cleaner.
After by lightly spraying with water to prevent development of dust, spills should be swept up or wiped up. Then residuals can be removed with soap and water. Preferred to use the material in a place, covering up the floor and surrounding matters with suitable sheets such as paper, in a case of being not fit to scrub the floor with water. These used sheets should be wrapped up in spills and transfer into a suitable container for disposal.
Garments may be washed or dry cleaned, after removal of loose toner.

SECTION 7 HANDLING AND STORAGE

HANDLING : Avoid creating dust. Clean up all spills promptly.
Inhalation and contact with skin or eyes should be avoided.
Provide general ventilation. Good general ventilation should be sufficient of most conditions.
STORAGE : Store in a cool, well ventilated place away from flames and spark-producing equipment.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES : ACGIH TLV= 10mg/m³(Total dust), 3mg/m³(Respirable dust)
OSHA PEL= 15mg/m³(Total dust), 5mg/m³(Respirable dust)
ENGINEERING CONTROLS : Good general ventilation is recommended.
RESPIRATORY PROTECTION : Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.
SKIN PROTECTION : No precautions should be needed under normal use.
EYE PROTECTION : No precautions should be needed under normal use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE :	Black fine powder
ODOR :	Slight plastic odor
PARTICLE SIZE :	5 - 15 µm
pH :	Not applicable
SOFTENING POINT :	100 - 150°C
BOILING POINT :	No information available
VAPOR PRESSURE :	No information available
VAPOR DENSITY :	No information available
BULK DENSITY :	0.4
SOLUBILITY IN WATER :	Negligible
PARTITION COEFFICIENT (n-octanol/water):	No data
AUTO-IGNITION TEMPERATURE :	No data
DECOMPOSITION TEMPERATURE :	No data
VISCOSITY :	No data
EXPLOSIVE PROPERTIES :	Can form explosive dust-air mixtures when finely dispersed in air.
OXIDISING PROPERTIES :	No data

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY :	None
CHEMICAL STABILITY :	This is a stable product.
POSSIBILITY OF HAZARDOUS REACTIONS :	None
CONDITIONS TO AVOID :	None
INCOMPATIBLE MATERIALS :	Oxidizing materials
HAZARDOUS DECOMPOSITION PRODUCTS :	Carbon oxides, hydrocarbons(by high heat and fire)

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY :	
ORAL TOXICITY :	LD50 > 2000 mg/kg(Rat) ¹⁾
INHALATION TOXICITY :	No Data
SKIN CORROSION/IRRITATION :	NON-IRRITANT(Rabbit) ¹⁾
SERIOUS EYE DAMAGE/IRRITATION :	No data
SKIN SENSITISATION :	NON-SENSITIVE(Guinea Pig) ¹⁾
REPEATED DOSE TOXICITY :	

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/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, the most relevant level to potential human exposure.

CARCINOGENICITY :

In 1996, the IARC reevaluated carbon black as a GROUP 2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rat receiving chronic inhalation exposures to free carbon black at level that induce particle overload of the lung.

Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

MUTAGENICITY : Negative in the Ames test

REPRODUCTIVE TOXICITY : Not available

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

SECTION 12 ECOLOGICAL INFORMATION

MOBILITY : No information available
BIOACCUMULATION : No information available
ECOTOXICITY : No information available

SECTION 13 DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD : When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

SECTION 14 TRANSPORT INFORMATION

TRANSPORT INFORMATION : This is not a hazardous product.
UN NUMBER : None allocated
UN SHIPPING NAME : None allocated
UN CLASSIFICATION : None allocated
UN PACKING GROUP : None allocated
IATA : Not regulated
DOT : Not regulated

SECTION 15 REGULATORY INFORMATION

USA INFORMATION :
All chemical substances in this product comply with all applicable rules or orders under TSCA.
AUSTRALIA INFORMATION :
Not classified as hazardous according to criteria of NOHSC.
EU INFORMATION :
(EC) No 1907/2006 : AUTHORISATION ON USE : Not regulated
RESTRICTIONS ON USE : Not regulated
(EC) No 1272/2008 : CLASSIFICATION : None
HAZARD CLASS : None
HAZARD STATEMENT : None

SECTION 16 OTHER INFORMATION

REFERENCES :
IARC(2010) IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 93, Carbon Black, Titanium Dioxide and Talc. Lyon FRANCE, PP.193-276.
H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.Mackenzie, P.Morrow, U.Mohr, S.Takenaka and R.Mermelstein (1991) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

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.