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Material Safety Data Sheet

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SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME : Black Toner for Panasonic Laser Fax

PRODUCT NUMBER : Toner Cartridge / KX-FA83, KX-FA83A, KX-FA83A7, KX-FA83E, KX-FA83E-CN,
KX-FA83E-M, KX-FA83X
Drum Unit / KX-FA84, KX-FA84A, KX-FA84A7, KX-FA84E, KX-FA84E-CN, KX-FA84X

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE OR MIXTURE : Mixture

INGREDIENTS AND CONCENTRATION RANGE

Ingredients	Concentration Range(%)	CAS RN
Black toner	Confidential	

INGREDIENTS CONTRIBUTING TO THE HAZARD (JAPAN) : None

SECTION 3 HAZARDOUS IDENTIFICATION

MOST IMPORTANT HAZARDS

ADVERSE HUMAN HEALTH EFFECTS : To the best of our investigation, no special hazards have to be mentioned.

ENVIRONMENTAL EFFECTS : To the best of our investigation, no information about adverse effects in the environment available.

PHYSICAL AND CHEMICAL HAZARDS : This material is not dangerous in case of usual handling.
May cause risk of dust explosion.

CLASS NAME FOR MSDS IN JAPAN : Not applicable

SECTION 4 FIRST AID MEASURES

IN CASE OF INHALATION : Remove person to fresh air. If necessary seek medical attention.

IN CASE OF SKIN CONTACT : Wash material off the skin with plenty of water and soap.
If necessary seek medical attention.

IN CASE OF EYE CONTACT : : Immediately hold eyelids open and flush with a stream of water at least 15 minutes. If necessary seek medical attention.

IN CASE OF INGESTION : Seek medical attention. Never give anything by mouth to an unconscious person. If possible, rinse out mouth and give one or two glasses of water or milk to drink.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	: Water spray, powder
NOT SUITABLE EXTINGUISHING MEDIA	: No information available
SPECIFIC HAZARDS	: May produce irritating or toxic gases in a fire.
SPECIFIC METHODS	: Keep away from sources of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible.
PROTECTION OF FIRE FIGHTERS	: Use goggles in combination with dust mask, and another protections as appropriate to situation.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	: Use mask, goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation. Treat from upwind position.
ENVIRONMENTAL PRECAUTIONS	: Do not discharge into the drains, surface waters or ground water directly.
METHODS FOR CLEANING UP	: Prevent dispersion of dust. Sweep or vacuum by dust-explosion-proof type cleaner.
PREVENTION OF SECONDARY HAZARDS	: No information available

SECTION 7 HANDLING AND STORAGE

HANDLING	
TECHNICAL MEASURES	: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
PRECAUTIONS	: Avoid inhalation of fine dust .
SAFE HANDLING ADVICE	: Handle in well-ventilated areas. Use safety glasses and protective gloves as appropriate to situation. Wash hands and face, and gargle after handling. Prevent generation of dust. This material may cause risk of dust explosion.
STORAGE	
STORAGE CONDITIONS	: Keep container tightly closed. Protect from sun. Store in a well-ventilated room (under 40°C).
SAFE PACKAGING MATERIALS	: No information available

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES	: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use local exhaust ventilation, in case of generation of dust.
LIMIT VALUES	
ACGIH (TLV)	: 3.5 mg/m ³ TWA Carbon black
OSHA (PEL)	: 3.5 mg/m ³ TWA Carbon black
PERSONAL PROTECTIVE EQUIPMENT	
RESPIRATORY PROTECTION	: Dust respirator
HAND PROTECTION	: Rubber gloves
EYE PROTECTION	: Safety glasses with side shield(Safety goggles or Face shield)
SKIN AND BODY PROTECTION	: Full-body suit
HYGIENE MEASURES	: No information available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATES

FORM : Pulverizing powder
COLOUR : Black
ODOUR : Odourless
pH : Not applicable

**SPECIFIC TEMPERATURES / TEMPERATURE RANGES
AT WHICH CHANGES IN PHYSICAL STATE OCCUR**

BOILING POINT : No data available
MELTING POINT : No data available
DECOMPOSITION TEMPERATURE : No data available
FLASH POINT : Not applicable
AUTOIGNITION TEMPERATURE : No data available

EXPLOSION PROPERTIES

EXPLOSION : UPPER LIMIT: No data available LOWER LIMIT: No data available

VAPOUR PRESSURE : No data available

VAPOUR DENSITY : No data available

DENSITY : 1.2 g/mL (°C) (°F)

SOLUBILITY

WATER SOLUBILITY : Insoluble
SOLVENT SOLUBILITY : Partially soluble in toluene, chloroform and tetrahydrofuran.

OCTANOL / WATER PARTITION
COEFFICIENT : No data available

OTHER DATA : No data available

SECTION 10 STABILITY AND REACTIVITY

STABILITY : Stable in general.

HAZARDOUS REACTIONS : Stable.

CONDITIONS TO AVOID : No information available

MATERIALS TO AVOID : No information available

HAZARDOUS DECOMPOSITION
PRODUCTS : No information available

OTHERS : No information available

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY : No information available

LOCAL EFFECTS

CORROSIVITY : No information available
SKIN IRRITATION : No information available
EYE IRRITATION : No information available

SENSITIZATION : No information available

CHRONIC TOXICITY / LONG TERM
TOXICITY : No information available

CARCINOGENICITY

IARC : No information available
Group 2B : Possibly carcinogenic to humans.
Carbon black

NTP : Not established

EU : Not established

OSHA : Not established

MUTAGENICITY : No information available

REPRODUCTIVE TOXICITY : No information available

OTHER DATA : No information available

SECTION 12 ECOLOGICAL INFORMATION

MOBILITY IN SOIL : No information available
PERSISTENCE / DEGRADABILITY : No information available
BIOACCUMULATION : No information available
ECOTOXICITY
AQUATIC TOXICITY : No information available
OTHER DATA : No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Review "HANDLING AND STORAGE (Section 7)".
Passed to a licensed waste contractor.
This product may cause risk of dust explosion.
Dispose of waste in accordance with local, state and federal regulations.

SECTION 14 TRANSPORT INFORMATION

Follow all regulations in your country or region
UN CLASS / UN NUMBER : Not applicable
PRECAUTIONS : Review "ACCIDENTAL RELEASE MEASURES (Section 6)".
Review "HANDLING AND STORAGE (Section 7)".
Ensure containers without breakage or leakage.
Ensure containers tightly fixed.
Follow all regulations in your country or region.
Avoid heating(keep under 40°C).

SECTION 15 REGULATORY INFORMATION

Follow all regulations in your country or region.
INVENTORIES : ENCS(Japan) Yes
TSCA(USA) Yes
EINECS(EU) No(ELINCS)
AICS(Australia) Yes
DSL(Canada) No(NDSL)
ECL(Korea) Yes
PICCS(Philippines) Yes
IECSC(China) Yes

Panasonic System Networks Co., Ltd. is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

SECTION 16 OTHER INFORMATION

REFERENCE : -Safety data sheet for chemical products - Part 1: Content and order of sections(ISO 11014-1)
REFERENCE :
-International Chemical Safety Cards(ICSC) (Compiler's Guide)(1994)

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