

Material Safety Data Sheet

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Revised :

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

PRODUCT NAME : Toner Cartridge for Panasonic Laser Fax, Model KX-FL300 series
PRODUCT NUMBER : KX-FAT90E

PRODUCT NAME : Drum Cartridge for Panasonic Laser Fax, Model KX-FL300 series
PRODUCT NUMBER : KX-FAD91

PRODUCT NAME : Toner Cartridge for Panasonic Laser Fax, Model KX-FL400/FLC400 series
PRODUCT NUMBER : KX-FAT88E, KX-FAT88X

PRODUCT NAME : Drum Cartridge for Panasonic Laser Fax, Model KX-FL400/FLC400 series
PRODUCT NUMBER : KX-FAD89E, KX-FAD89X

PRODUCT NAME : Toner Cartridge for Panasonic Laser Fax, Model KX-FLB800 series
PRODUCT NUMBER : KX-FA85E, KX-FA85E-D, KX-FA85X, KX-FA87E, KX-FA87X

PRODUCT NAME : Drum Cartridge for Panasonic Laser Fax, Model KX-FLB800 series
PRODUCT NUMBER : KX-FA86E, KX-FA86X

PRODUCT NAME : Toner Cartridge for Panasonic Multi-Function Printer, Model KX-MB200/MB700 series
PRODUCT NUMBER : KX-FAT92E, KX-FAT92E-T, KX-FAT92X

PRODUCT NAME : Drum Cartridge for Panasonic Multi-Function Printer, Model KX-MB200/MB700 series
PRODUCT NUMBER : KX-FAD93E, KX-FAD93X

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SECTION 2 HAZARDOUS IDENTIFICATION

MOST IMPORTANT HAZARDS AND EFFECTS

GHS CLASSIFICATION

PHYSICAL AND CHEMICAL HAZARDS : Not classified

HEALTH HAZARDS

ACUTE TOXICITY (Oral) : Not classified
ACUTE TOXICITY (Dermal) : Not classified
ACUTE TOXICITY (Inhalation) : Not applicable (Vapours)
SKIN CORROSION / IRRITATION : Classification not possible
SERIOUS EYE DAMAGE / EYE IRRITATION : Classification not possible
RESPIRATORY SENSITIZATION : Classification not possible
SKIN SENSITIZATION : Classification not possible
GERM CELL MUTAGENICITY : Classification not possible
CARCINOGENICITY : Category 2
REPRODUCTIVE TOXICITY : Classification not possible
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY
- SINGLE EXPOSURE : Classification not possible
- REPEATED EXPOSURE : Category 1(lung)
ASPIRATION HAZARD : Classification not possible

ENVIRONMENTAL HAZARDS

HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE TOXICITY : Classification not possible
- CHRONIC TOXICITY : Classification not possible

GHS LABEL ELEMENTS
PICTOGRAMS OR SYMBOLS :



- SIGNAL WORD : Danger
HAZARD STATEMENTS : Suspected of causing cancer
Causes damage to organs through prolonged or repeated exposure (lung)
- PRECAUTIONARY STATEMENTS
PREVENTION : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapours/spray.
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
If needed, use personal protective equipment as required.
- RESPONSE : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN: Gently wash with plenty of soap and water.
IF exposed or concerned: Get medical attention/advice.
- STORAGE : Store locked up.
Protect from sun. Store in a well-ventilated room (under 40 C).
- DISPOSAL : Passed to a licensed waste contractor.
- SAFE HANDLING ADVICE :

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE OR MIXTURE	: Mixture		
INGREDIENTS AND CONCENTRATION RANGE		Concentration Range(%)	CAS #
Polyester resin		Confidential	Confidential
Carbon black		Confidential	1333-86-4
Other components		Confidential	

SECTION 4 FIRST AID MEASURES

- IN CASE OF INHALATION : Remove to fresh air and keep at rest in a position comfortable for breathing.
IF exposed or concerned: Get medical attention/advice.
Get medical attention/advice if you feel unwell.
- IN CASE OF SKIN CONTACT : Gently wash with plenty of soap and water.
IF exposed or concerned: Get medical attention/advice.
Get medical attention/advice if you feel unwell.
- IN CASE OF EYE CONTACT : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical attention/advice.
Get medical attention/advice if you feel unwell.
- IN CASE OF INGESTION : IF exposed or concerned: Get medical attention/advice.
Get medical attention/advice if you feel unwell.

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, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE : 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. Prevent dispersion of dust.
METHODS FOR CLEANING UP	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	: Use an adequate ventilation. Wash thoroughly after handling. If needed, use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. This material may cause risk of dust explosion.

STORAGE

SUITABLE STORAGE CONDITIONS	: Keep container tightly closed. Protect from sun. Store in a well-ventilated room (under 40°C). Store locked up.
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 10 mg/m ³ TWA (inhalable particles, recommended); 3 mg/m ³ TWA (respirable particles, recommended)(Particulates (insoluble or poorly soluble) not otherwise specified (PNOS))
OSHA (PEL)	: 3.5 mg/m ³ TWA Carbon black 15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction) (Particulates not otherwise regulated)
PERSONAL PROTECTIVE EQUIPMENT	
RESPIRATORY PROTECTION	: Use dust mask, as appropriate to situation.
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	: Powder
COLOUR	: Black
ODOUR	: Odourless
pH	: No data available

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

BOILING POINT	: No information available
MELTING POINT	: No information available
FLASH POINT	: No data available

FLAMMABILITY OR EXPLOSIVE PROPERTIES

FLAMMABILITY OR EXPLOSIVE	: UPPER LIMIT : No information available
LIMITS	: LOWER LIMIT : No information available

VAPOUR PRESSURE : No information available

VAPOUR DENSITY : No information available

SPECIFIC GRAVITY (DENSITY) : 1.2 g/mL

SOLUBILITY

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

PARTITION COEFFICIENT: n- OCTANOL / WATER (log Pow)	: No information available
AUTO-IGNITION TEMPERATURE	: No information available
DECOMPOSITION TEMPERATURE	: No information available
ODOUR THRESHOLD	: No information available
EVAPORATION RATE	: No information available
FLAMMABILITY (SOLID,GAS)	: No information available
VISCOSITY	: No information available
OTHER DATA	: No information available

SECTION 10 STABILITY AND REACTIVITY

CHEMICAL STABILITY	: Stable in general.
POSSIBILITY OF HAZARDOUS REACTIONS	: Stable.
CONDITIONS TO AVOID	: No information available
INCOMPATIBLE MATERIALS	: No information available
HAZARDOUS DECOMPOSITION PRODUCTS	: No information available
OTHERS	: No information available

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Oral

INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available 10% of the mixture consists of ingredients of unknown toxicity.

Dermal

INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available 14% of the mixture consists of ingredients of unknown toxicity.

Inhalation

INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available

SKIN CORROSION / IRRITATION

INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available

SERIOUS EYE DAMAGE / IRRITATION

INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available

RESPIRATORY OR SKIN SENSITIZATION

RESPIRATORY

INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available

SKIN

INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available

MUTAGENICITY (GERM CELL MUTAGENICITY)

INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available

CARCINOGENICITY

INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: Carbon black: Category 2; Ref.(1)
IARC	: Group 2B : Possibly carcinogenic to humans. Carbon black Group 3 : Not classifiable as to its carcinogenicity to humans Polytetrafluoroethylene

NTP	: Not listed
EU	: Not listed
OSHA	: Not listed

REPRODUCTIVE TOXICITY

INFORMATION ON PRODUCT	: No information available
INFORMATION ON INGREDIENTS	: No information available

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY

- SINGLE EXPOSURE

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

- REPEATED EXPOSURE

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : Carbon black: Category 1 (lung); Ref.(1)

ASPIRATION HAZARD

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

OTHER INFORMATION : No information available

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY : No information available

PERSISTENCE / DEGRADABILITY : No information available

MOBILITY IN SOIL : No information available

BIOACCUMULATIVE POTENTIAL : No information available

OTHER ADVERSE EFFECTS : 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

INTERNATIONAL REGULATIONS

UN CLASS / UN NUMBER : Not applicable

SPECIAL PRECAUTIONS FOR USER : 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)
(1)GHS Classification Database, National Institute of Technology and Evaluation (NITE)

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