Date of issue : 28 May, 2015 Revision Date : 25 April, 2019

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

PRODUCT NAME : Toner for Panasonic Laser Fax, Model KX-FL500 series, KX-FL600 series, KX-FLM600 series

PRODUCT NUMBER : KX-FA83E,KX-FA83X,KX-FA84E,KX-FA84X

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 #
• Polyester resin	Confidential	Confidential	-
• Carbon Black	Confidential	1333-86-4	215-609-9
• Other components	Confidential		

SECTION 4 FIRST AID MEASURES

INHALATION : Remove to fresh air and keep at rest in a position comfortable for breathing.

INGESTION : Call a POISON CENTER or doctor/physician if you feel unwell.

SKIN CONTACT : Gently wash with plenty of water and soap.

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

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 other 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.

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 : Use an adequate ventilation. Wash thoroughly after handling. If needed, use personal protective equipment as required. Prevent generation of dust. 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/m3 TWA [Carbon black]
10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended) [Particulates (insoluble or poorly soluble) not otherwise specified (PNOS)]

OSHA (PEL): 3.5 mg/m3 TWA [Carbon black]
15 mg/m3 TWA (total dust); 5 mg/m3 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

SKIN AND BODY PROTECTION : Full-body suit

HYGIENE MEASURES : No information available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE
PHYSICAL STATES : Pulverizing powder
COLOUR : Black
ODOUR : Odourless
pH : Not applicable
SPECIFIC TEMPERATURES/TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR
BOILING POINT : No information available
MELTING POINT : No information available
FLASH POINT : Not applicable
FLAMMABILITY OR EXPLOSIVE PROPERTIES
FLAMMABILITY OR EXPLOSIVE LIMITS : No information available
VAPOUR PRESSURE : No information available
VAPOUR DENSITY : No information available
DENSITY (SPECIFIC GRAVITY): 1.2 g/mL (20°C) (68°F)
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 : No data
SKIN CORROSION/IRRITATION : No data
SERIOUS EYE DAMAGE/IRRITATION : No data
SKIN SENSITISATION : No data
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/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 :

In 1996, the IARC revaluated 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.
(Estimated from the data of other products or information of constituent components from raw material manufacturer.)

REPRODUCTIVE TOXICITY : Not 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 CONSIDERATION

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
DOT, IMO or IATA : Not hazardous classification
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

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

REFERENCE :

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