

Date of issue : 27 May, 2015

Revision Date : \_\_\_\_\_

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

PRODUCT NAME : Toner for Panasonic Facsimile machines, Models UF-6950, UF-7000, UF-7100, UF-7200, UF-7300, UF-7950, UF-7960, UF-8000, UF-8100, UF-8200, UF-8300, UF-9000, DP-190 and DP-180

PRODUCT NUMBER : Toner Cartridge : UG-5540, UG-5540DEV, UG-5545, UG-5545DEV, UG-5550, UG-5550DEV, DQ-UG26H, DQ-UG26HDEV, DQ-UG27H, DQ-UG2627HDEV  
Process Cartridge : UG-5570, UG-5571, UG-5575

RECOMMENDED USE : Toner for electrophotographic printing apparatus

MANUFACTURER : Panasonic System Networks Co., Ltd.  
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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)	CAS #	PROPORTION (% by wt.)	OSHA PEL	ACGIH TLV
♦ Styrene acrylate copolymer	Trade secret	85 - 95	Not listed	Not listed
♦ Carbon Black	1333-86-4	0.1 - 5	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>
♦ Amorphous silica	7631-86-9	1 - 5	Not listed	Not listed
♦ Polypropylene	9010-79-1	1 - 5	Not listed	Not listed
♦ Organic pigment*	[ 8005-02-5 65997-04-8	< 1	Not listed	Not listed

\*:See[Section 15]

**SECTION 4 FIRST AID MEASURES**

EYE CONTACT : Flush eyes immediately with plenty of water within 15 minutes.  
If irritation persists, obtain medical advice.

SKIN CONTACT : Wash with plenty of water and soap.

INGESTION : Rinse mouth and give several glasses of water.  
If irritation persists, obtain medical advice.

INHALATION : Move to fresh air. If irritation persists, obtain medical advice.

NOTE TO PHYSICIAN : None

#### **SECTION 5 FIRE FIGHTING MEASURES**

FLAMMABLE PROPERTIES : Not highly flammable.  
FLASH POINT : No data available.  
FLAMMABLE LIMITS : No data available.  
EXTINGUISHING MEDIA : CO<sub>2</sub>, dry chemical, water.  
UNSUITABLE EXTINGUISHING MEDIA : Do not use a solid water stream as it may scatter and spread fire.  
HAZARDOUS COMBUSTION PRODUCTS : CO<sub>2</sub>, CO, Organic products of decomposition.  
FIRE-FIGHTING EQUIPMENT : Wear full bunker gear including a positive pressure self-contained breathing apparatus in case of burning in large quantities.

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#### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS : Minimize the release of particulates. Wear personal protective equipment. Garments may be washed or dry cleaned, after removal of loose toner.  
ENVIRONMENT PRECAUTION : Do not allow this preparation to contaminate ground water system.  
METHOD FOR CLEANING UP : After spraying with water to prevent development of dusts, spills should be swept up or wiped up. Residuals can be removed with soap and water. Or sweep slowly spilled powder to paper and transfer into a suitable container for disposal. If sweep them with vacuum cleaner, must use a dust explosion-proof type.

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#### **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. You should use or handle at the suitable place without smudges.  
STORAGE : Archiving environment is ventilated well. Store in a cool and dry place, away from flames and spark-producing equipment.

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#### **SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

EXPOSURE GUIDELINES : ACGIH TLV= 10mg/m<sup>3</sup>(Total dust), 3mg/m<sup>3</sup>(Respirable dust)  
OSHA PEL= 15mg/m<sup>3</sup>(Total dust), 5mg/m<sup>3</sup>(Respirable dust)  
ENGINEERING CONTROLS : Good general ventilation is recommended.  
RESPIRATORY PROTECTION : Not required under normal conditions. In dusty atmospheres, use an approved dust respirator.  
SKIN PROTECTION : No precautions should be needed under normal use.  
EYE PROTECTION : No precautions should be needed under normal use.

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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APPEARANCE : Black fine powder  
ODOR : Slight plastic odor  
pH : No data  
MELTING POINT : No data  
BOILING POINT : Not applicable  
VAPOR PRESSURE : Not applicable  
VAPOR DENSITY : Not applicable  
RELATIVE DENSITY : 1.1  
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

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**SECTION 10 STABILITY AND REACTIVITY**

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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)

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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ACUTE TOXICITY : Not available  
SKIN CORROSION/IRRITATION : Not available  
EYE CORROSION/IRRITATION : Not available  
SKIN SENSITISATION : Not available  
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<sup>3</sup>) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m<sup>3</sup>) exposure group.

But no pulmonary change was reported in the lowest (1mg/m<sup>3</sup>) 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.  
(Estimated from the data of other products or information of constituent components from raw material manufacturer.)  
REPRODUCTIVE TOXICITY : Not available

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**SECTION 12 ECOLOGICAL INFORMATION**

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ACUTE(SHORT-TERM)TOXICITY : Not available  
CHRONIC(LONG-TERM)TOXICITY : Not available  
PERSISTENCE AND DEGRADABILITY : Not available  
BIOACCUMULATIVE POTENTIAL : Not available  
MOBILITY IN SOIL : Not available  
RESULTS OF PBT AND vPvB ASSESSMENT : No results that the components of this toner meet the PBT or vPvB criteria under Regulation (EC) No 1907/2006.  
OTHER ADVERSE EFFECTS : Not available

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**SECTION 13 DISPOSAL CONSIDERATION**

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WASTE DISPOSAL METHOD : (Review Section 6,7) Waste must be disposed of in accordance with country and local environmental control regulations.

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**SECTION 14 TRANSPORT INFORMATION**

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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

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**SECTION 15 REGULATORY INFORMATION**

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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 AND CATEGORY CODE(S): None  
HAZARD STATEMENT CODE(S): None  
INGREDIENTS : Rosin fumarated (CAS 65997-04-8)  
"Contains Rosin fumarated. May produce an allergic reaction."

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**SECTION 16 OTHER INFORMATION**

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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.

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product described in terms of the legal warranty.