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**SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE
AND OF THE COMPANY / UNDERTAKING**PRODUCT NAME : Toner for Panasonic Facsimile machines, Models UF-490,UF-4000
and UF-4100

PRODUCT NUMBER : Toner Cartridge : UG-3221,UG-3222

RECOMMENDED USE : Toner for electrophotographic printing apparatus

MANUFACTURER : Panasonic System Networks Co., Ltd.
Office Products Business Division
4-1-62 Minoshima, Hakata-ku, Fukuoka City, 812-8531 Japan
Tel : +81-(0)92-477-1405 Fax : +81-(0)92-477-1487**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	50 - 60	Not listed	Not listed
♦ Iron oxide	1317-61-9	35 - 45	Not listed	Not listed
♦ Paraffin wax	8002-74-2	1 - 7	Not listed	Not listed
♦ Polypropylene	9010-79-1	1 - 5	Not listed	Not listed
♦ Titanium oxide	13463-67-7	0.1 - 3	15 mg/m ³	10 mg/m ³

SECTION 4 FIRST AID MEASURESEYE 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 : CO₂, dry chemical, water.
UNSUITABLE EXTINGUISHING MEDIA : Do not use a solid water stream as it may scatter and spread fire.
HAZARDOUS COMBUSTION PRODUCTS : CO₂, 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.

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.

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.

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. 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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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 : ca. 1.6
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 : Not available
SKIN CORROSION/IRRITATION : Not available
SERIOUS EYE DAMAGE/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/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 :

Titanium dioxide is classified as "possibly carcinogenic to human" (Group 2B) by IARC.

Evaluation of Titanium dioxide The tumor formulation observed in only rats with animal chronic inhalation study are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Uses of this product, as intended, dose not result in inhalation of excessive dust. Epidemiological study to date have not revealed any evidence of the relation between exposure to titanium dioxide and diseases of the respiratory tract beyond general effects of dust.

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

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

SECTION 13 DISPOSAL CONSIDERATION

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

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 AND CATEGORY CODE(S): None
HAZARD STATEMENT CODE(S): 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.

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.