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Material Safety Data Sheet

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MSDS No.: 021-001084

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SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME : Toner of Toner Cartridge UG-3380 for Panasonic Facsimile machines Models UF-6300 and UF-5300

PRODUCT NUMBER : Toner for Toner Cartridge UG-3380

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS (Common Name)	CAS #	PROPORTION (% by wt.)	OSHA PEL	ACGIH TLV	OTHER LIMITS
♦ Polystyrene acrylate copolymer		> 54.0	Not listed	Not listed	None
♦ Iron oxide	1317-61-9	< 40.0	Not listed	Not listed	None
♦ Polypropylene		< 4.0	Not listed	Not listed	None
♦ Organic pigment*	31714-55-3	< 1.0	Not listed	Not listed	None
♦ Amorphous silica		< 1.0	20mppcf	10.0 mg/m ³	None

SECTION 3 HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW :

Odorless black fine powder.

Not a highly flammable, but when suspended in air, is combustible as with most organic powders.

POTENTIAL HEALTH EFFECTS :

EYES : Solid or dusts may cause irritation or corneal injury.

SKIN CONTACT : Essentially nonirritating to skin.

SKIN ABSORPTION : Skin absorption is unlikely due to physical properties.

INGESTION : Oral toxicity is believed to be low.

INHALATION : Minimal irritation to respiratory track may occur.

FIRE AND EXPLOSION :

SENSITIVITY TO MECHANICAL IMPACT : None

SENSITIVITY TO STATIC CHARGE : None

SECTION 4 FIRST AID MEASURES

EYES : Flush eyes immediately with plenty of water for at least 15 minutes.

SKIN : Flush with plenty of water. Use soap.

INGESTION : No adverse effects anticipated by this route of exposure incidental to proper handling.

INHALATION : Remove to fresh air. If effects occur, consult medical personnel.

SECTION 5 FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES :

FLASH POINT : No data available

FLAMMABLE LIMITS

Explosion Limits(Upper): No data available

Explosion Limits(Lower): No data available

EXTINGUISHING MEDIA : Water fog, foam, CO₂, dry chemical.

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

Minimize the release of particulates. Wear personal protective equipment.

Do not use vacuum cleaner.

After by lightly spraying with water to prevent development of dust, spills should be swept up or wiped up. Then residuals can be removed with soap and water. Preferred to use the material in a place, covering up the floor and surrounding matters with suitable sheets such as paper, in a case of being not fit to scrub the floor with water. These used sheets should be wrapped up in spills and transfer into a suitable container for disposal.

Garments may be washed or dry cleaned, after removal of loose toner.

SECTION 7 HANDLING AND STORAGE

Avoid creating dust. Clean up all spills promptly.

Inhalation and contact with skin or eyes should be avoided.

Provide general ventilation. Good general ventilation should be sufficient for most conditions.

Store in cool, well ventilated place away from flames and spark-producing equipment. May toners be preferred to use or to handle at the suitable place without concerning about smudges to which are given rise by releasing them.

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)

RESPIRATORY PROTECTION : For most conditions, no respiratory protection should be needed; however, 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 : Odorless

BOILING POINT : Not applicable

VAPOR PRESSURE : Not applicable

VAPOR DENSITY : Not applicable

SOLUBILITY (H₂O): Negligible

SPECIFIC GRAVITY : ca. 1.60 g/cm³

MELTING POINT : Not applicable

pH : Not applicable

PERCENT VOLATILE : Not applicable

SECTION 10 STABILITY AND REACTIVITY

STABILITY : This is a stable product.
INCOMPATIBILITY : (SPECIAL MATERIALS TO AVOID) Oxidizing materials.
HAZARDOUS DECOMPOSITION PRODUCTS : CO or NOx (by high heat and fire)
HAZARDOUS POLYMERIZATION : Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

MUTAGENICITY : Negative in the Ames test
CARCINOGENIC EFFECTS : No data available
CHRONIC EFFECTS : No data available

SECTION 12 ECOLOGICAL INFORMATION

None

SECTION 13 DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD : 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 No. : None allocated.

SECTION 15 REGULATORY INFORMATION

USA INFORMATION :
All chemical substances in this product comply with all applicable rules or orders under TSCA.
SARA Title III Section 313 :
Organic pigment is regarded as Chromium compounds (category Codes : N090).
EU INFORMATION :
None
AUSTRALIA INFORMATION :
Not classified as hazardous according to criteria of NOHSC.

SECTION 16 OTHER INFORMATION

NFPA RATING : Health = 1 Flammability = 1 Reactivity = 0

REFERENCES :
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.

Information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions.