## **Material Safety Data Sheet**

Page: 1 of 4 MSDS No.: 021-001123

Date of issue: 29 July, 2005 Revised: 29 January, 2010

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

PRODUCT NAME: Toner of UG-3221 and UG-3222 Toner Cartridge, UG-3220 Process

Unit for Panasonic Facsimile machine Model UF-490, UF-4000

and UF-4100

PRODUCT NUMBER: Toner of UG-3221 and UG-3222 Toner Cartridge, UG-3220 Process

Unit

MANUFACTURER: Panasonic System Networks Co., Ltd.

Communication Network Company

4-1-62 Minoshima, Hakata-ku, Fukuoka City, 812-8531 Japan

Tel : +81-(0)92-477-1821 Fax : +81-(0)92-477-1487

E-mail : msdsinfo\_ut@ml.jp.panasonic.com

CONTACT POINT : Panasonic Testing Center

Panasonic Marketing Europe GmbH

Winsbergring 15, D-22525 Hamburg, Germany

Tel: +49 (0)40 8549- 0

#### SECTION 2 HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW: Odorless black fine powder.

Not a highly flammable, but when suspended in air, is

combustible as with most organic powders.

EU CLASSIFICATION: Not classified as dangerous.

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 3	3	COMPOSITION /	/	INFORMATION	on	INGREDIENTS

INGREDIENTS	CAS #	PROPORTION (% by wt.)	EC #	SYMBOLS	R PHRASE
<ul> <li>Styrene-acrylate copolymer</li> </ul>		> 44.0		None	None
· Iron oxide	1309-38-2	< 40.0	215-169-8	None	None
· Polypropylene		< 4.0		None	None
· Paraffine wax		< 3.0		None	None
· Amorphous silica		< 1.0		None	None

Page: 2 of 4 MSDS No.: 021-001123

#### SECTION 4 FIRST AID MEASURES

EYE CONTACT: Any material that contacts the eye should be washed out immediately

with water.

Get medical attention if symptoms is occur.

SKIN CONTACT: Wash after each contact.

Get medical attention if symptoms is occur.

INHALATION: If symptomatic, remove to fresh air.

Get medical attention if symptoms persist.

INGESTION: If swallowed, drink 1-2 glasses of water and immediately induce

vomiting. Get medical attention.

#### SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT : Not applicable. FLAMMABLE LIMITS : Not applicable.

EXTINGUISHING MEDIA: Water fog, dry chemical, foam or CO<sub>2</sub>.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, Carbon dioxide and Smoke

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

HANDLING: 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 of most conditions.

STORAGE: Store in a cool, well ventilated 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. For use other

than in normal operating procedures (such as in the event of large spill), goggles and respirators may be

required.

SKIN PROTECTION: No precautions should be needed under normal use.

EYE PROTECTION: No precautions should be needed under normal use.

Page : 3 of 4 MSDS No. : 021-001123

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Black fine powder

ODOR: None

pH : Not applicable
VAPOR PRESSURE (mg Hg.): Not applicable
VAPOR DENSITY (AIR = 1): Not applicable
% VOLATILE : Not applicable
BOILING POINT (°C): Not applicable
MELTING POINT (°C): Not applicable
SOLUBILITY IN WATER : Negligible

SPECIFIC GRAVITY  $(H_2O=1)$ : 1.6

#### SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS REACTIONS: Dust explosion, like most finely divided organic powders.

CONDITIONS TO AVOID: Electronic discharge, throwing into fire.

MATERIALS TO AVOID: Oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon dioxide and Smoke.

#### SECTION 11 TOXICOLOGICAL INFORMATION

HEALTH EFFECTS FROM EXPOSURE: No symptoms expected with intended use.

ACUTE TOXICITY :

INHALATION: Finely divided solid. Avoid exposure to dust.

EYES: No specific hazard known. May cause temporary irritation.

SKIN: Low hazard for recommended handling.

INGESTION: Expected to be a low ingestion hazard.

MUTAGENICITY: Negative in the Ames test

#### CARCINOGENICITY :

No carcinogen or potential carcinogen, according to IARC Monographs, NTP, OSHA(USA) regulation and EU Directive.

#### CHRONIC EFFECTS :

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 ( $16\text{mg/m}^3$ ) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle ( $4\text{mg/m}^3$ ) exposure group. But no pulmonary change was reported in the lowest ( $1\text{mg/m}^3$ ) exposure group, the most relevant level to potential human exposure.

#### SECTION 12 ECOLOGICAL INFORMATION

No data available.

#### SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

Page: 4 of 4 MSDS No.: 021-001123

### SECTION 14 TRANSPORT INFORMATION

TRANSPORT INFORMATION: This is not a hazardous product.

UN No.: None allocated.

#### SECTION 15 REGULATORY INFORMATION

INFORMATION ON THE LABEL:

SYMBOL & INDICATION : Not required. Risk Phrases : Not required.

SPECIAL PROVISIONS OF ANNEX V TO DIRECTIVE 1999/45/EC: Not required.

#### SECTION 16 OTHER INFORMATION

#### 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.