

**1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING****PRODUCT NAME:** Dataproducts toner for use in SAMSUNG FAX SF5100 / 5100P**APPLICATION:** Toner suitable for Laser Printers**SUPPLIER:** Clover Portugal Unipessoal, Lda.  
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Lugar de Varziela – Arvore  
4480-091 Vila do Conde  
Portugal**Tel:** + 351 252 640 230**Fax:** + 351 252 641 440**2. COMPOSITION / INFORMATION ON INGREDIENTS**

| Name                      | EC-No. | CAS-No.                                | Content | Classification    |
|---------------------------|--------|--|---------|-------------------|
| CARBON BLACK              |        | 1333-86-4                              | 2-4%    |                   |
| Styrene Acrylic Copolymer |        | Confidential                           | 90-95%  |                   |
| Wax                       |        | EINECS 204-062-1                       | 2.5-4%  |                   |
| Charge Control Agent      |        | 65997-04-8;<br>62-53-3;<br>101357-15-7 | 1.5-3%  | Xn, R48, 20,21,22 |
| Silica                    |        | 67762-90-7                             | 0-2%    |                   |
| Silicon Carbide           |        | 409-21-2                               | 0-2%    |                   |

The Full Text for all R-Phrases are Displayed in Section 16

**COMPOSITION COMMENTS**

The Data Shown is in accordance with the latest EC Directives.

**3 HAZARDS IDENTIFICATION**

Not regarded as a health or environmental hazard under current legislation.

**ENVIRONMENT:**

The product is not expected to be hazardous to the environment.

**PHYSICAL AND CHEMICAL HAZARDS:**

High concentrations of dust may form explosive mixture with air.

**HUMAN HEALTH:**

Dust irritates the respiratory system, and may cause coughing and difficulties in breathing.

**4 FIRST-AID MEASURES****GENERAL INFORMATION:**

General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious. Get medical attention if any discomfort continues.

**INHALATION:**

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

**INGESTION:**

Immediately rinse mouth and provide fresh air. Get medical attention if any discomfort continues.

**SKIN CONTACT:**

Remove affected person from source of contamination. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

**EYE CONTACT:**

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Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA:

Use fire-extinguishing media appropriate for surrounding materials.

#### UNUSUAL FIRE & EXPLOSION HAZARDS

Dust may form explosive mixture with air. Fire causes formation of toxic gases.

#### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

### 6 ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS

Avoid inhalation of dust. Wear protective clothing as described in Section 8 of this safety data sheet.

#### ENVIRONMENTAL PRECAUTIONS:

Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Avoid spreading dust or contaminated materials.

#### SPILL CLEAN UP METHODS:

Avoid generation and spreading of dust. Shovel into dry containers. Cover and move the containers. Flush the area with water. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container.

### 7 HANDLING AND STORAGE

#### USAGE PRECAUTIONS:

Use mechanical ventilation in case of handling which causes formation of dust.

#### STORAGE PRECAUTIONS:

Store in tightly closed original container in a cool, dry well-ventilated place. Keep in original container.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### INGREDIENT COMMENTS:

WEL = Workplace Exposure Limits

#### PROTECTIVE EQUIPMENT:



#### PROCESS CONDITIONS:

Use engineering controls to reduce air contamination to permissible exposure level.

#### RESPIRATORY EQUIPMENT:

No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10 mg/m<sup>3</sup>. Wear respirator if there is dust formation. Dust filter P2 (for fine dust).

#### HAND PROTECTION:

Use protective gloves.

#### EYE PROTECTION:

Wear dust resistant safety goggles where there is danger of eye contact.

#### OTHER PROTECTION:

Use engineering controls to reduce air contamination to permissible exposure level. Wear dust masks in dusty areas. Wear appropriate clothing to prevent reasonably probable skin contact.

#### HYGIENE MEASURES:

Wash at the end of each work shift and before eating, smoking and using the toilet.

DO NOT SMOKE IN WORK AREA!

# SAFETY DATA SHEET

## 9 PHYSICAL AND CHEMICAL PROPERTIES

|                                |                  |                      |                    |
|--------------------------------|------------------|----------------------|--------------------|
| <b>APPEARANCE:</b>             | Powder, dust     | <b>COLOUR:</b>       | Black              |
| <b>ODOUR:</b>                  | Almost odourless | <b>SOLUBILITY:</b>   | Insoluble in water |
| <b>MELTING POINT (°C):</b>     | 126-135          | <b>BULK DENSITY:</b> |                    |
| <b>PARTICLE SIZE (Micron):</b> | 2 - 20           |                      |                    |

## 10 STABILITY AND REACTIVITY

### STABILITY:

No particular stability concerns.

### CONDITIONS TO AVOID:

Avoid heat, flames and other sources of ignition. Avoid dust close to ignition sources.

### HAZARDOUS POLYMERISATION:

Will not polymerise.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Fire creates: Toxic gases/vapours/fumes of: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). PAH (polycyclic aromatic hydrocarbons).

## 11 TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL INFORMATION:

DPC toners are formulated on Ames negative raw materials and have been independently certified Ames negative.

EEC Annex to Directive 92/69/EEC (1992) Part B Methods for Determination of Toxicity, B13 Other effects- Mutagenicity: Escherichia coli-reverse mutation assay

### INHALATION:

High concentrations of dust may irritate throat and respiratory system and cause coughing.

### INGESTION:

No harmful effects expected in amounts likely to be ingested by accident.

### SKIN CONTACT:

Powder may irritate skin.

### EYE CONTACT:

May cause temporary eye irritation.

### HEALTH WARNINGS:

Dust may irritate respiratory system. This chemical may cause skin/eye irritation.

## 12 ECOLOGICAL INFORMATION

### ECOTOXICITY:

Acute Toxicity for Fish – L C 50>100mg/l (EU), LC50>750mg/l (DOHS) (mg/l/96hr).

## 13 DISPOSAL CONSIDERATIONS

### GENERAL INFORMATION:

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

### DISPOSAL METHODS:

Powder to be collected, sealed tightly in bags and disposed on approved landfills. Dispose of waste and residues in accordance with local authority requirements.

## 14 TRANSPORT INFORMATION

### GENERAL:

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

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## 15 REGULATORY INFORMATION

### RISK PHRASES:

NC      Not classified.

### SAFETY PHRASES:

P13      Safety data sheet available for professional user on request.

MSDS No.:    813866-001 EU

### EU DIRECTIVES:

Safety Data Sheet according to 91/155/EC as amended Dangerous Preparations Directive 1999/45/EEC. System of specific information relating to Dangerous Preparations. 2001/58/EEC.

### APPROVED CODE OF PRACTICE:

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

### GUIDANCE NOTES:

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

### NATIONAL REGULATIONS:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

Workplace Exposure Limits 2005 (EH40)

Control of Substances Hazardous to Health Regulations 2002 (as amended)

## 16 OTHER INFORMATION

ISSUED BY: Clover Portugal

REVISION DATE: 17/06/2006

SAFETY DATA SHEET STATUS: Approved.

### RISK PHRASES IN FULL

Not classified.

NC      Not classified.

**Ref:**    EN\_MSDS\_SAMSUNG SF5100 01

### DISCLAIMER

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