
MATERIAL SAFETY DATA SHEET

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Date: 03/05/2010

1- IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY

Product Supplier Reference: 253156799 / 253156801

Consumable Name: PFA751 SFL All in One Toner Cartridge 2K
PFA752 SFL All in One Toner Cartridge 3,5K

Supplier Identification:

SAGEMCOM DOCUMENTS SAS

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TONER COMPONENT

2- HAZARDS IDENTIFICATION (MOST IMPORTANT HAZARD)

[Potential Health Effects]

Ingestion Effects : Ingestion is not applicable route of entry for intended use.

Inhalation Effects : Minimal respiratory tract irritation may occur with exposure to large amount of toner dust.

Eye Effects : Solid or dusts may cause irritation or scratch the surface of eye.

Skin Effects : Unlikely to cause skin irritation.

[Environmental Hazards]

No particular hazards known.

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3- COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Proportion	OSHA PEL	ACGIH TLV
Styrene-acrylate copolymer	25767-47-9	40-60%	Not listed	Not listed
Iron oxide	1309-38-2	35-55%	10mg/m3 as Fe2O3	5mg/m3 as Fe
Wax (*)	Proprietary	0.5-5%	Not listed	Not listed
Polypropylene	9003-07-0	1-5%	Not listed	Not listed
Azo-chromium (trivalent) Compound	31714-55-3	0.1-3%	Not listed	Not listed
Silica	7631-86-9	0.1-3%	20 mppcf (*) 80/(%SiO2) mg/m3	10mg/m3

(*) million particles/cubic foot

[Further Information]

(*) The substance is listed in the inventory of TSCA (USA), AICS (Australia), NDSL (Canada), IECSC (China), EINECS (EU), ENCS (Japan), ISHL (Japan) and KECI (Korea).

4. FIRST-AID MEASURES

- Ingestion: Dilute stomach contents with several glasses of water. Get medical attention if symptoms persist.
- Inhalation: Move person to fresh air immediately. If symptoms occur, consult a physician.
- Eye Contact: Immediately flush with large amount of clean water for at least 15 minutes. If irritation persists, consult a physician.
- Skin Contact: Wash affected areas thoroughly with soap and water. If irritation persists, consult a physician.

5. FIRE-FIGHTING MEASURES

- Extinguishing Media : CO2, water, dry chemical
- Special Fire-fighting Procedure: None
- Unusual Fire & Explosion Hazards: Toner material, like most organic material in powder form, is capable of creating a dust explosion.

6. ACCIDENTAL RELEASE MEASURES

- Spill and Leakage Procedure:
Wear personal protective equipment as described in Section 8. Avoid breathing dust. Minimize the release of particles. Vacuum or sweep the material into a bag or other sealed container. Dispose of waste toner in accordance with local requirements.
- Environmental precautions:
Do not discharge into drains.

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7. HANDLING & STORAGE

Advise on safe handling and protection against fire:

Keep material out of reach of children. Avoid inhalation of dust and contact with eyes.

Keep away from excessive heat, sparks, and open flames.

Requirements for storage rooms and advice on compatibility:

Keep out of the reach of children. Keep container closed and store at room temperature.

Keep away from strong oxidizers.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational Exposure Limits For Toner:

ACGIH TLV: 10mg/m³ (Inhalable Particulate)

3mg/m³ (Respirable Particulate)

Respiratory Protection: Not required under intended use.

Ventilation: Good general ventilation should be sufficient under intended use.

Protective Gloves: Not required under intended use.

Eye Protection: Not required under intended use.

Other Protective Equipment: Not required under intended use.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance and odor: Fine black powder, slight plastic odor.

Density: 1.4-18g/ cm³

Boiling Point: Not applicable

Melting Point: Not applicable

Vapor Pressure: Not applicable

Solubility in Water: Negligible

Solubility in Other Solvent: Partially soluble in toluene and THF

Percent Volatile by Volume: Not applicable

Flammable Limits: Not applicable

Flammability: No test data available. Based on the EC labeling criteria, any components in this product are not classified as the dangerous categories of "extremely flammable", "highly flammable" and "flammable".

Explosibility: No test data available. Based on the EC labeling criteria, any components in this product are not classified as the dangerous category of "explosive".

10. STABILITY & REACTIVITY

Stability & Reactivity: Stable. Hazardous polymerization will not occur.

Materials to Avoid: None

Hazardous Decomposition Products: Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide.

11. TOXICOLOGICAL INFORMATION**Acute Effects****Oral:**

No test data available. Based on the EC labeling criteria, any components in this product are not classified as the dangerous categories of "very toxic", "toxic" and "harmful" when swallowed.

Dermal:

No test data available. Based on the EC labeling criteria, any components in this product are not classified as the dangerous categories of "very toxic", "toxic" and "harmful" when absorbed via the skin.

Inhalation:

No test data available. Based on the EC labeling criteria, any components in this product are not classified as the dangerous categories of "very toxic", "toxic" and "harmful" when inhaled.

Eye Contact:

No test data available. Based on the EC labeling criteria, any components in this product are not classified as the dangerous categories of "irritant" when contacted with the ocular tissue.

Skin Contact:

No test data available. Based on the EC labeling criteria, any components in this product are not classified as the dangerous categories of "irritant" when contacted with the skin.

Sensitization:

No test data available. Based on the EC labeling criteria, toner components do not have to be classified as the dangerous category of "sensitizing" if they penetrate the skin.

Chronic Toxicity**Oral:**

No test data available. Based on the EC labeling criteria, any components in this product are not required a risk phrase R48 (danger for serious damage to health by prolonged exposure).

Dermal:

No test data available. Based on the EC labeling criteria, any components in this product are not required a risk phrase R48 (danger for serious damage to health by prolonged exposure).

Inhalation:

No test data available.

In a study in rats of 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 exposures.

Based on the EC labeling criteria, any components in this product are not required a risk phrase R48 (danger for serious damage to health by prolonged exposure).

Mutagenicity:

Ames test result of similar toner showed negative mutagenicity.

Carcinogenicity:

No test data available. Based on the EC labeling criteria, toner components of the toner are not classified as the dangerous category of "carcinogenic".

Reproductive Toxicity:

No test data available. Based on the EC labeling criteria, any components in this product are not classified as the dangerous category of "toxic for reproduction".

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12. ECOLOGICAL INFORMATION

No data available for ecological and wastewater treatment (sewage) systems. Avoid spills and dispose of in accordance with applicable laws and regulations.

Environmental Effects:

No data available. Based on the EC labeling criteria, any components in this product are not classified as the dangerous category of "dangerous for the environment".

13. DISPOSAL CONSIDERATION

[Waste From This Product]

Waste material may be dumped or incinerated on condition that meets all country, state and local environmental regulations.

Recommendation: consult with the disposal agency and the relevant authorities; cleansing agent is water.

14. TRANSPORT INFORMATION

[International Transport Information]

UN Number: None

Hazards Class: None

15. REGULATORY INFORMATION

The DIRECTIVE 1999/45/EC: No label information required

The DIRECTIVE 2002/95/EC: This product does not contain lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) that are intentionally introduced.

California Proposition 65: This product does not contain the chemicals known to cause cancer or reproductive toxicity that is intentionally introduced.

Please refer to any other national measures that may be relevant.

16. OTHER INFORMATION [MSDS STATUS]

References:

1. COMMISSION DIRECTIVE 2001/59/EC of 6 August 2001 adapting to the technical progress for the 28th time Council Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances
2. DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labeling of dangerous preparations
3. DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment
4. STATE OF CALIFORNIA, ENVIRONMENTAL PROTECTION AGENCY, OFFICE OF ENVIRONMENTAL HEALTH HAZARD ASSESSMENT, SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 (Proposition 65), CHEMICALS KNOWN TO THE STATE TO CAUSE CANCER OR REPRODUCTIVE TOXICITY (February 3, 2006)

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DRUM COMPONENT

2- HAZARDS IDENTIFICATION (MOST IMPORTANT HAZARD)

If the OPC drum is used according to specification, it does not represent any known health or safety hazard.

3- COMPOSITION/INFORMATION ON INGREDIENTS

Preparation

Photoreceptor Drum consisting of Aluminium and an Organic Photoconductor Coating.

Substrate: Aluminium Cylinder, content > 98 % CAS no.7429-90-5 EC no. 231-072-3

Coating: Organic Photoconductor, content < 2 %.

4 First-Aid Measures

No need for first aid is anticipated.

5 Fire-Fighting Measures

Extinguishing Media: Water spray, foam, dry powder, carbon dioxide.

Extinguishing Media not to be used: None.

Special Fire Fighting Protective Equipment: Use self-contained breathing apparatus.

Special Risk: In case of fire the formation of toxic fumes is possible (see section 10).

6 Accidental Release Measures

None.

7 Handling and Storage

No special measures required. However, do not store together with inflammable and highly flammable materials.

As a precaution concerning electrophotographic properties of the OPC drum, dry and dust free storage in a temperature range of 15 - 25°C is recommended. Avoid direct contact with chemical fumes. Avoid exposure to direct light. Do not touch the surface of the photoreceptor drum, because electrophotographic properties will be negatively influenced.

8 Exposure Controls / Personal Protection

Since the product does not contain hazardous compounds, there is no risk of exposure.
Personal Protective Equipment: None required under normal use.

9 Physical and Chemical Properties

The aluminium substrate with a content of > 99 % of the product is not regarded. The following data refer to the coating.

Appearance

Form: solid, drum
Color: green / blue
Odor: odorless

Safety Relevant Data

Melting Point:	not available
Point of Ignition:	not available
Flashpoint:	not available
Lower Explosion Limit:	not applicable
Upper Explosion Limit:	not applicable
Vapour Pressure (20 °C):	not available
Specific Gravity:	app. 1,2 g/cm ³
pH-Value:	not applicable
Solubility in Water (20 °C):	insoluble
Solubility in Ethanol (20 °C):	insoluble
Solubility in Tetrahydrofuran (20 °C):	soluble
Solubility in Dichloromethane (20 °C):	soluble
Solubility in Toluene (20 °C):	soluble

10 Stability and Reactivity

The photoreceptor drums are stable under the recommended storage and handling conditions (see section 7). Up to 250 °C there is no thermal decomposition of organic photoconductor materials. Above this temperature a slow thermal oxidative decomposition of the organic photoconductor materials (content < 2 % of the product) begins. In case of fire the formation of toxic fumes consisting of carbon monoxide, carbon dioxide, oxides of nitrogen, aromatic compounds and aldehydes is possible.

The organic photoconductor coating is largely stable against inorganic chemicals. The stability of the coating is determined from the binder which consists mainly of polycarbonate.

The organic photoconductor coating is soluble in some organic solvents (see section 9). Dangerous reactions with organic chemicals are not expected.

The aluminium cylinder is reacting with non oxidizing acids and with caustic alkali under evolution of hydrogen.

11 Toxicological Information

Not toxic.

12 Ecological Information

The recycling of the aluminium substrate is recommended.

13 Disposal Considerations

Used OPC drums are disposed like scrap aluminium. Disposal should be in accordance with local, state and federal regulations. A disposal agreement with the manufacturer is possible.

14 Transport Information

Not subject of transport regulations.

Overland Transportation ADR/RID and GGVS/GGVE:	No hazardous goods
Inland Shipping Transportation ADN/ADNR:	No hazardous goods
Maritime Transport IMDG/IMDGSee:	No hazardous goods
Air Transport ICAO/IATA-DGR:	No hazardous goods

15 Regulatory Information

Labelling corresponding EC-Directives

No special labelling necessary.

The Organic Photoconductor (OPC) for Non-Impact Printers must not be classified in accordance with EC Directive 1999/45/EC (Classification, Packaging and Labelling of dangerous Preparations).

16 Other Information

Reason for revision

General revision of the Material Safety Data Sheet.
