

Material Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier: IMAGING CARTRIDGE S051221

1.2. Relevant identified uses of the substance or mixture and uses advised against:

Identified uses; Toner for electrophotographic printing

1.3. Details of the supplier of the safety data sheet:					
Distributor:	EPSON EUROPE B.V.				
Address:	Azie building, Atlas ArenA, Hoogoorddreef				
	5,1101 BA Amsterdam				
	Zuidoost The Netherlands				
	www.epson-europe.com				
<i>TEL:</i> +31-20-314-5000	FAX: +31-20-314-5100				
e-mail:	chemicals@epson-europe.com				
Date Prepared:	25 April 2012				
Revision:	А				
1.4. Emergency telephone number:	Giftnotruf Berlin +49 030 19240				

SECTION 2: Hazards identification

2.1. Classification of the mixture:			
Classification (1999/45/E0	C); Not Classified		
2.2. Label elements: Label in Accordance with 1999/45/EC			
Symbol(s);	None		
Indication(s) of danger;	None		
Risk phrase;	None		
Safety advice;	None		
2.3. Other hazards:			
Classification ((EC)No1907/2006);	No data available		

SECTION 3: Composition/information on ingredients Substance / Mixture: Mixture (Toner Composition)

Composition	CAS No.	EEC No.	EU registration No.	% By Weight	EU Symbols	EU R-phrase	EU OELs	Remark
Polyester resin	Trade secret	Trade secret	Not available for the moment	40 - 50	None	None	None	None
Magnetite	1309-38-2	215-169-8	Not available for the moment	40 - 50	None	None	None	None
Propylene wax	Trade secret	Trade secret	Not available for the moment	< 10	None	None	None	None
Stylene/acrylate resin and olefin resin	Trade secret	Trade secret	Not available for the moment	< 10	None	None	None	None
Amorphous silica	7631-86-9	231-545-4	Not available for the moment	< 10	None	None	None	None
Titanium dioxide	13463-67-7	236-675-5	Not available for the moment	< 1	None	None	None	None



SECTION 4: First aid measures

4.1. Description of first aid measures

- **4.1.1.** *Eyes* : Immediately flush with room temperature, low pressure and clean water for at least 15 minutes. Seek medical attention if eye irritation continues.
- *4.1.2. Skin* : Wash surface areas with soap and water. Wash soiled clothing before wearing again. Consult a physician if irritation continues.
- **4.1.3.** *Inhalation* : Remove subject to ventilated fresh air. If not breathing, give artificial respiration right away. If breathing is difficult, give oxygen. Seek immediate medical attention.
- 4.1.4. Ingestion : Seek medical advice; and attention if stomach continues to be upset.
- 4.2. Most important symptoms and effects, both acute and delayed:
 - Inhalation: Prolonged inhalation of excessive toner may cause respiratory tract irritation.
- 4.3. Indication of any immediate medical attention and special treatment needed: Not necessary

SECTION 5: Fire-fighting measures

- 5.1. Extinguishing Media
- 5.1.1.Suitable extinguishing media: Dry chemical, carbon dioxide or water.
- 5.1.2.Unsuitable extinguishing media: None known
- 5.2. Special hazards arising from the substance or mixture: CO, NOx

5.3. Advice for firefighters: No special fire fighting procedures are required other than breathing apparatus. No special explosion hazards are known.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- 6.1.1. For non-emergency personnel: Eye or Skin protection required during clean-up.Use proper ventilation.
- 6.1.2. For emergency responders: None
- 6.2. Environmental precautions: Do not release to sewer, surface- or ground-water.
- 6.3. Methods and material for containment and cleaning up
- 6.3.1. Advice on how to contain a spill: Use wet sponges or cloths to wipe-up the materials.
- 6.3.2. Advice how to clean-up a spill: Rinse area with damp cloth. Place waste in closed container for disposal. Wash hands with soap and water.
- 6.3.3. Any other information: Do not dispose of waste to the sewer.

6.4. Reference to other sections: None

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
- 7.1.1. Recommendations: Keep out of reach of children. Do not dismantle cartridge.

7.1.2. Advice on general occupational hygiene:

Avoid inhaling toner. In the case of prolonged inhalation of excessive toner, seek immediate medical attention.

7.2. Conditions for safe storage, including any incompatibilities:

Do not store the cartridge in high or freezing temperatures. Keep cartridge out of direct sunlight. Do not store cartridges with oxidizing agents or explosives.

7.3. Specific end use(s): Not specified



SECTION 8: Exposure controls/personal protection

9.1. Information on basic physical and chemical properties:

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Appearance:	Black powder
Odour:	Faint odor
Odour threshold:	No data available
pH:	Not applicable
Melting point / freezing point:	No data available
Initial boiling point and boiling range:	Not applicable
Flash point:	Not inflammability
Evaporation rate:	No data available
Flammability (solid, gas):	Not flammable
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	Not applicable
Vapor density:	Not applicable
Relative density:	No data available
Solubility(ies):	Insoluble
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature:	No ignition quality
Decomposition temperature:	No data available
Viscosity:	Not applicable
Explosive properties:	No data available
Oxidizing properties:	No data available
.2. Other information:	None

SECTION 10:Stability and reactivity

10.1. Reactivity:Stable under normal temperature10.2. Chemical stability:Stable under normal temperature10.3. Possibility of hazardous reactions:None10.4. Conditions to avoid:High and freezing temperatures, electric discharge10.5. Incompatible materials:Oxidizers and explosives10.6. Hazardous decomposition products:CO, CO2, and NOX

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SECTION 11: Toxicological information

11.1. Informati	ion on toxico	ological effects:		
Acute toxicity:		Not meet the criteria for classification according to EU Directive 1999/45/EC		
	Oral LD ₅₀ :	> 5000mg/kg (Rat)		
		₅₀ :> 5000mg/kg (Rabbit)		
	Inhalant LC	$C_{50} > 2.06 \text{mg/L/4hr}$ (Rat)		
Irritation	Eye:	Not meet the criteria for classification according to EU Directive 1999/45/EC		
	Skin:	Not meet the criteria for classification according to EU Directive 1999/45/EC		
Corrosivity:		Not meet the criteria for classification according to EU Directive 1999/45/EC		
Sensitisation	Skin:	Not meet the criteria for classification according to EU Directive 1999/45/EC		
		n:Not meet the criteria for classification according to EU Directive 1999/45/EC		
Chronic Healt	h Hazards:	Prolonged inhalation of excessive dust may cause lung damage. It is attributed to		
		"lung overloading", a generic response to excessive amounts of any dust retained in		
		the lungs for a prolonged interval. Use of this product, as intended, does not result in		
		inhalation of excessive dust. In a study in rats by chronic inhalation exposure to a		
		typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of rats		
		in the high concentration (16mg/m ³) exposure group, and a minimal to mid degree of		
		fibrosis was noted in 22% of the animals in the middle (4mg/m ³) exposure group. But		
		no pulmonary change was reported in the lowest (1mg/m ³) exposure group, the most		
		relevant level to potential human exposures.		
Carcinogenici	ty:	Not meet the criteria for classification according to EU Directive 1999/45/EC		
		Titanium dioxide is classified as "possibly carcinogenic to human" (Group 2B). In		
		animal chronic inhalation studies, the tumor formulation observed in only rats are		
		attributed to "lung overloading", a generic response to excessive amounts of any dust		
		retained in the lungs for a prolonged interval. Use of this product, as intended, does		
		not result in inhalation of excessive dust. Epidemiological studies 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:		Not meet the criteria for classification according to EU Directive 1999/45/EC		
		Negative (by Ames test)		
Toxicity for re	production:	Not meet the criteria for classification according to EU Directive 1999/45/EC		

SECTION 12:Ecological information

No data available
• No data available
No data available
No data available
ssment: Has not carried out PBT and vPvB assessment
No data available
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SECTION 13: Disposal considerations

13.1Waste treatment methods: Disposal should be in accordance with federal, state, and local requirements.

SECTION 14: Transport information

14.1. UN number: Not applicable	
14.2. UN proper shipping name:	Not applicable
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable

- **14.6.** Special precautions for user: Not applicable
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable



SECTION 15:Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Information:		
Regulation (EC) No 2037/2000:		Is not subject
Regulation (EC) No 850/2004:		Is not subject
Regulation (EC) No 689/2008:		Is not subject
US Information:		
TSCA Section 4(a) Final Test Rules Regulated:		Not regulated
TSCA Section 8(a) Preliminary Assessment Information Rule (PAIR):		Not regulated
TSCA Section 12(b) One-Time Export Notification Regulated:		Not regulated
California Proposition 65:		Listed as a carcinogen
Canada Information:		
WHMIS Controlled Product: Not applicable (Manufacture		ed article)
Australia Information:		
Statement of Hazardous Nature: Not classified as hazardous according to criteria of NOHSC		
15.2. Chemical safety assessment: This mixture(Toner) has not carried out any Chemical Safety Assessment yet.		

SECTION 16:Other information

List of relevant R-phrases: Nothing

This "Material Safety Data Sheet" contains health, safety, and environmental information. It does not replace any precautionary language or use and disposal information which accompanies the product. The information contained herein is believed to be accurate at the time of preparation, but should only be used as a guide. It is subject to revision from time to time. EPSON does not warrant the completeness or accuracy of the information contained herein.