

Safety Data Sheet

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

1.1. Product identifier: Standard Capacity Developer Cartridge S050520

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 saf	fety 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:	7 September 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/EC); 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 (PBT,vPvB (EC)No1907/2006); No data available

Toner 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	> 90	None	None	None	None
Polyolefin wax	Trade secret	Trade secret	Not available for the moment	1 - 10	None	None	None	None
Carbon black	1333-86-4	215-609-9	Not available for the moment	1 - 10	None	None	None	None
Organic pigment	Trade secret	Trade secret	Not available for the moment	1 - 10	None	None	None	None
Amorphous silica	7631-86-9	231-545-4	Not available for the moment	< 1	None	None	None	None

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

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:

Skin: Toner contact with skin may cause irritation, swelling or redness.

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 spray.

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

8.1. Control parameters: <u>As total dust</u> US: ACGIH-TLV is: 10mg/m³ US: OSHA-PEL is: 15mg/m³ Germany: DFG-MAK is: 4mg/m³ Australia: Worksafe-TWA is: 10mg/m³

8.2. Exposure Controls

8.2.1. Appropriate engineering controls: Proper ventilation, in prevention



8.2.2. Individual protection measures, such as personal protective equipment 8.2.2.1. Use of personal protective equipment:

Not required under suitable use as setting the cartridge on the printer.

- 8.2.2.2. Detailed specification on equipment to provide adequate and suitable protection

 (a) eye/face protection: Not required under suitable use as setting the cartridge on the printer.
 (b) skin protection: hand protection & others:
- (c) respiratory protection:
 (d) thermal hazards:
 Not required under suitable use as setting the cartridge on the printer. Not required under suitable use as setting the cartridge on the printer. Not required under suitable use as setting the cartridge on the printer.
 8.2.3. Environmental exposure controls: Not established

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:			
Appearance:	Black powder		
Odour:	Slightly		
Odour threshold:	No data available		
pH:	Not applicable		
<i>Melting point / freezing point:</i>	No data available		
Initial boiling point and boiling range:	Not applicable		
Flash point:	Not applicable		
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 data available		
Decomposition temperature:	No data available		
Viscosity:	Not applicable		
Explosive properties:	No data available		
Oxidizing properties:	No data available		
9.2. Other information:	None		

SECTION 10:Stability and reactivity

Stable under normal temperature
Stable under normal temperature
None
High and freezing temperatures, electric discharge
Oxidizers and explosives
CO, CO2 and NOx

SECTION 11: Toxicological Information

11.1. Information on toxicological effects:

Acute toxicity	:	Not meet the criteria for classification according to EU Directive 1999/45/			
		Oral LD ₅₀ :	>5000 mg/kg (Rat)	(practically non-toxic)	
		Dermal LD ₅₀ :	>2000 mg/kg (Rabbit)	(practically non-toxic)	
		Inhalant LC ₅₀ :	>0.74 mg/L/4hr (Rat)	(practically non-toxic)	
Irritation	Eye:	Not meet the criteria	for classification accord	ling to EU Directive 1999/45/EC	

Not an irritant (Rabbit)



Skin	Not meet the criteria for classification according to EU Directive 1999/45/EC Not an irritant (Rabbit)
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 Not a sensitizer (Guinea-pig)
Inhalation	: Not meet the criteria for classification according to EU Directive 1999/45/EC
	<i>ards:</i> 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.
Carcinogenicity:	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. Not meet the criteria for classification according to EU Directive 1999/45/EC Carbon Black is classified as "Group 2B (possibly carcinogenic to humans)" by IARC, the International Agency for Research on Cancer. With excessive exposure, carbon black has been listed as a possible human carcinogen. However, we obtained the results from a Chronic Toner Inhalation Study, that commercially available toner has no evidence of
Mutagenicity:	human carcinogens. All other ingredients are not classified as "Carcinogens". Not meet the criteria for classification according to EU Directive 1999/45/EC Negative (by Ames test)

Toxicity for reproduction: Not meet the criteria for classification according to EU Directive 1999/45/EC

SECTION 12:Ecological information

12.1. Toxicity:	No data available
12.2. Persistence and degradability:	No data available
12.3. Bioaccumulative potential:	No data available
12.4. Mobility in soil:	No data available
12.5. Results of PBT and vPvB asses	sment: Has not carried out PBT and vPvB assessment
12.6. Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1. Waste 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 5 Significant New Use Rule Regulation:	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:	Not regulated.	
Canada Information:		
WHMIS Controlled Product:	Not applicable (Manufacture	d article)
Australia Information:		
Statement of Hazardous Nature:	Not classified as hazardous a	ccording to criteria of NOHSC

15.2. Chemical safety assessment: This 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.