

Material Safety Data Sheet

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

1.1. Product identifier: Toner Cartridge (Black) S050605

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:	30 March 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	C); Not Classified
2.2. Label elements: Label in Accor	dance 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	60 - 80	None	None	None	None
Ferrite powder	Trade secret	Trade secret	Not available for the moment	10 - 20	None	None	None	None
Amorphous silica	7631-86-9	231-545-4	Not available for the moment	< 10	None	None	None	None
Blue Pigment	Trade secret	Trade secret	Not available for the moment	< 10	None	None	None	None
Carbon black	1333-86-4	215-609-9	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

SECTION 6. Exposure cond	i ois/personar protection			
8.1. Control parameters:				
<u>As total dust:</u>				
US: ACGIH-TLV is:	US: ACGIH-TLV is: 10mg/m3			
US: OSHA-PEL is: 1	.5mg/m3			
Germany: DFG-MAI	K is: 4mg/m3			
Australia: Worksafe-	Australia: Worksafe-TWA is: 10mg/m3			
8.2. Exposure Controls				
8.2.1. Appropriate engineer	<i>ing controls:</i> 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 specificati	ion 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:				
	Not required under suitable use as setting the cartridge on the printer.			
(c) respiratory protection:	Not required under suitable use as setting the cartridge on the printer.			
(d) thermal hazards:	Not required under suitable use as setting the cartridge on the printer.			
8.2.3. Environmental expos	ure 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:	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:	None
Evaporation rate:	No data available
Flammability (solid, gas):	Not flammable
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	No data available
Solubility(ies):	Insoluble
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature:	None
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:
10.2. Chemical stability:
10.3. Possibility of hazardous reactions:
10.4. Conditions to avoid:
10.5. Incompatible materials:
10.6. Hazardous decomposition products:

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:

11.1. Information	i on toxicologica	l effects:
Acute toxicity:	Not	meet the criteria for classification according to EU Directive 1999/45/EC
0	oral LD ₅₀ :	> 2000mg/kg (Rat)
D	ermal LD ₅₀ :	No data available
Ir	nhalant LC ₅₀ :	> 2.03 mg/L/4 hr (Rat)
Irritation	Eye:Not 1	neet the criteria for classification according to EU Directive 1999/45/EC
	Skin:Not 1	neet 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
	Inhalation:Not 1	neet the criteria for classification according to EU Directive 1999/45/EC
Chronic Health H	azards: Prolonge	d inhalation of excessive dust may cause lung damage. It is attributed to "lung
	overloadi	ng", a generic response to excessive amounts of any dust retained in the lungs
	for a prol	onged 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
		ate 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 anima	als 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 ex	
Carcinogenicity:		riteria for classification according to EU Directive 1999/45/EC
		Black is classified as "Group 2B (possibly carcinogenic to humans)" by IARC,
		ational Agency for Research on Cancer. With excessive exposure, carbon black
		isted as a possible human carcinogen. However, we obtained the results from a
		oner Inhalation Study, that commercially available toner has no evidence of
		rcinogens. All other ingredients are not classified as "Carcinogens".
		a dioxide is classified as "possibly carcinogenic to human" (Group 2B). In animal
		halation studies, the tumor formulation observed in only rats are attributed to
		rloading", a generic response to excessive amounts of any dust retained in the
		a prolonged interval. Use of this product, as intended, does not result in
		of excessive dust. Epidemiological studies to date have not revealed any
		of the relation between exposure to titanium dioxide and diseases of the
		y tract beyond general effects of dust.
Mutagenicity:	Not meet the c	riteria for classification according to EU Directive 1999/45/EC
—		Negative (by Ames test)
Toxicity for repro	<i>duction:</i> Not r	neet 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 assessment: Has not carried out PBT and vPvB assessment		
12.6. Other adverse effects:	No data available	

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 (Manufactured 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.