

# Safety Data Sheet

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

*1.1. Product identifier:* H.C.TONER CARTRIDGE BLACK S050659

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

	Laser 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 October 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); Not 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	70 - 90	None	None	None	None
Carbon Black	1333-86-4	215-609-9	Not available for the moment	< 10	None	None	None	None
Blue pigment	147-14-8	205-685-1	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
- 6.1.2. 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 controls/pers				
8.1. Control parameters:				
<u>As total dust:</u>				
US: ACGIH-TLV is: 10mg/n	n3			
US: OSHA-PEL is: 15mg/m3	3			
Germany: DFG-MAK is: 4m	g/m3			
Australia: Worksafe-TWA is	: 10mg/m3			
8.2. Exposure Controls				
8.2.1. Appropriate engineering co	ontrols: Proper ventilation, in prevention			
8.2.2. Individual protection meas	ures, such as personal protective equipment			
8.2.2.1. Use of personal protec	tive 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:				
	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 exposure co	ontrols: Not established			
SECTION 9: Physical and chemical properties				

# *9.1. Information on basic physical and chemical properties:*

	op en mest
Appearance:	Black powder
Odour:	Faint odour
Odour threshold:	Not available
pH:	Not available
<i>Melting point / freezing point:</i>	Not available
Initial boiling point and boiling range:	Not available
Flash point:	None
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Upper/lower flammability or explosive limits:	Not available
Vapor pressure:	Not applicable
Vapor density:	Not available
Relative density:	Not available
Solubility(ies):	Insoluble
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature:	None
Decomposition temperature:	Not available
Viscosity:	Not available
Explosive properties:	Not available
Oxidizing properties:	Not available
9.2. Other information:	None

# SECTION 10:Stability and reactivity

10.1. Reactivity:	Stable under normal temperature
10.2. Chemical stability:	Stable under normal temperature
10.3. Possibility of hazardous reactions:	None
10.4. Conditions to avoid:	High and freezing temperatures, electric discharge
10.5. Incompatible materials:	Oxidizers and explosives
10.6. Hazardous decomposition products:	$CO, CO_2$ , and $NOx$
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#### **SECTION 11: Toxicological information** •

	1.1. Information	0			
1	Acute toxicity:		Not meet the criteria for classification according to EU Directive 1999/45/EC		
2		Oral LD <sub>50</sub>	C C		
		Dermal LI			
		Inhalant L			
	Irritation	Eye:	Not meet the criteria for classification according to EU Directive 1999/45/EC		
	Irritation	Lye.	Not an irritant (Rabbit)		
		Skin:	Not meet the criteria for classification according to EU Directive 1999/45/EC		
		SKIN.	Not an irritant (Rabbit)		
	Corrosivity:		Not meet the criteria for classification according to EU Directive 1999/45/EC		
	Corrosivity.		Not a corrosive		
	Sensitisation	Skin:			
			Not meet the criteria for classification according to EU Directive 1999/45/EC Not a skin sensitizer (Guinea Pig)		
		nhalation:	Not meet the criteria for classification according to EU Directive 1999/45/EC		
	Chronic Health	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 $(16 \text{mg/m}^3)$ exposure group, and a minimal to mid degree of		
			fibrosis was noted in 22% of the animals in the middle $(4\text{mg/m}^3)$ exposure group. But		
			no pulmonary change was reported in the lowest $(1 \text{mg/m}^3)$ exposure group, the most		
			relevant level to potential human exposures. Not meet the criteria for classification according to EU Directive 1999/45/EC		
	Carcinogenicit	у.	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 human carcinogens. All other ingredients are not classified as		
			"Carcinogens".		
			Titanium dioxide is classified as "possibly carcinogenic to human" (Group 2B). In		
			animal chronic inhalation studies, the tumor formulation observed in only rats with		
			animal chronic inhalation study 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, dose not result in inhalation of excessive		
			dust. Epidemiological study to data 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 rep	production:	Not meet the criteria for classification according to EU Directive 1999/45/EC		

#### **SECTION 12:Ecological information**

12.1. Toxicity:	Not available
12.2. Persistence and degradability:	Not available
12.3. Bioaccumulative potential:	Not available
12.4. Mobility in soil:	Not available
12.5. Results of PBT and vPvB assessment:	Has not carried out PBT and vPvB assessment
12.6. Other adverse effects:	Not available

SECTION 13: Disposal considerations 13.1Waste treatment methods: Disposal should be in accordance with federal, state, and local requirements.



SECTION 14: Transport information	n	
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	
	o Annex II of MARPOL 73/78 and the	<b>IBC</b> Code: Not applicable
SECTION 15:Regulatory informatio	n	
15.1. Safety, health and environmer	ntal regulations/legislation specific for t	he 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 R	Rules Regulated:	Not regulated
TSCA Section 5 Significant Ne	TSCA Section 5 Significant New Use Rule Regulation:	
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:	This material contains Titan	ium dioxide, a chemical known to the
	State of California to cause	cancer.
Canada Information:		
WHMIS Controlled Product:	Not applicable (Manufactur	ed article)
Australia Information:		

15.2. Chemical safety assessment: This mixture(Toner) has not carried out any Chemical Safety Assessment yet.

Not classified as hazardous according to criteria of NOHSC

## **SECTION 16:Other information**

List of relevant R-phrases: Nothing

Statement of Hazardous Nature:

This "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.