

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

- 1.1. Product identifier
 - Mixture identification: Trade name:

TONER CARTRIDGE(Black) (C13S050750)

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

Toner for electrophotographic printing

1.3. Details of the supplier of the safety data sheet

Company:

EPSON EUROPE B.V.

Azie building, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam Zuidoost The Netherlands

+31-20-314-5000

Phone number: Competent person responsible for the safety data sheet:

chemicals@epson-europe.com 23/2/2018

Date:	
Devictore	

Revision:

United Kingdom;

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1.4. Emergency telephone number Phone number:

+31-20-314-5000 01952 607111 Monday to Friday 9am to 5:30pm. Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
 - EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

- No other hazards
- 2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

- Special Provisions:
 - None

Special provisions according to Annex XVII of REACH and subsequent amendments: None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

- 3.1. Substances
 - No
- 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

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Qty	Name	Ident. Nu	ımber	Classification
75% ~	Styrene acrylic resin	CAS:	Trade secret	The product is not classified as
85%		EC:	Not available	dangerous according to
				Regulation EC 1272/2008 (CLP).
10% ~	Wax	CAS:	Trade secret	The product is not classified as
20%		EC:	Not available	dangerous according to
				Regulation EC 1272/2008 (CLP).
1% ~	Carbon Black	CAS:	1333-86-4	The product is not classified as
10%		EC:	215-609-9	dangerous according to
				Regulation EC 1272/2008 (CLP).
1%~	Amorphous silica	CAS:	7631-86-9	The product is not classified as
10%	-	EC:	231-545-4	dangerous according to
				Regulation EC 1272/2008 (CLP).

SECTION 4: First aid measures

- 4.1. Description of first aid measures
 - In case of skin contact:

Wash surface areas with soap and water. Wash soiled clothing before wearing again. Consult a physician if irritation continues.

In case of eyes contact:

Immediately flush with room temperature, low pressure and clean water for at least 15 minutes. Seek medical attention if eye irritation continues.

In case of Ingestion:

Seek medical advice; and attention if stomach continues to be upset.

In case of 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.

- 4.2. 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
 - Treatment:

Not necessary

SECTION 5: Firefighting measures

- 5.1. Extinguishing media
 - Suitable extinguishing media:

Dry chemical, carbon dioxide or water spray.

Extinguishing media which must not be used for safety reasons: Full water jet.

- 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 Eye or Skin protection required during clean-up.
- 6.2. Environmental precautions
 - Do not release to sewer, surface- or ground-water.
- 6.3. Methods and material for containment and cleaning up

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Use wet sponges or cloths to wipe-up the materials. Rinse area with damp cloth.Place waste in closed container for disposal. Wash hands with soap and water.

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

Keep out of reach of children. Do not dismantle cartridge.

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 As total dust 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
 - Eye protection:

Not required under suitable use as setting the cartridge on the printer. Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

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

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

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

Environmental exposure controls:

Not established. Appropriate engineering controls:

Proper ventilation, in prevention.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Appearance and colour: Black powder Odour: Almost odorless Odour threshold: No data available Not applicable (Powder, solid) pH: Around 125°C(257F)(Softening Point) Melting point / freezing point: Not applicable (Powder, solid) Initial boiling point and boiling range: Solid/gas flammability: No data available Upper/lower flammability or explosive limits: No data available Vapour density: Not applicable (Powder, solid) Flash point: Not applicable (Powder, solid)

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Evaporation rate: Vapour pressure: Solubility in water: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidizing properties: 9.2. Other information Miscibility: Fat Solubility: Conductivity: No data available Not applicable (Powder, solid) Insoluble in water Not applicable (Powder, solid) No data available Not applicable (Powder, solid) No data available No data available No data available

None None 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, CO2, NOx and Smoke.

SECTION 11: Toxicological information

11.1 Information	on toxicological effects						
11.1. Information on toxicological effects Acute toxicity:Not meet the criteria for classification according to EC regulation 1272/2008 (CLP)							
	Oral LD50:	>2500 mg/kg (Rat)					
	Dermal LD50:	> Not applicable	(practically non-toxic)				
	Inhalant LC50:	>5.10mg/L/4hr (Rat)	(practically pop toxic)				
Irritation Eve							
Irritation Eye: Not meet the criteria for classification according to EC regulation 1272/2008 (CLP) Not an irritant (Rabbit)							
Skin:							
Corrosivity.	()	assification according to I	EC regulation 1272/2008 (CLP)				
			ing to EC regulation 1272/2008				
Continuatio	(CLP)						
	Not a sensitizer (Guinea	-nia)					
Inhalation: Not meet the criteria for classification according to EC regulation							
1272/2008 (CLP)							
Chronic Health 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/m3) exposure group, and a minimal to mid degree of							
	, e	, , , ,	0				
			ddle (4mg/m3) exposure group.				
But no pulmonary change was reported in the lowest (1mg/m3) exposure group,							
	the most relevant level to	o potential human exposu	res.				



Carcinogenicity: 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".

Mugtagenicity:Not meet the criteria for classification according to EC regulation 1272/2008 (CLP)

Negative (by Ames test)

Toxicity for reproduction: Not meet the criteria for classification according to EC regulation 1272/2008 (CLP)

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

13.1. 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 MARPOL73/78 and the IBC Code Not applicable

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Dir. 98/24/EC (Risks related to chemical agents at work)
 - Dir. 98/24/EC (Risks related to chemical agents at wo Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP)

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Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) 2015/830 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP) Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: Restrictions related to the product: No restriction. Restrictions related to the substances contained: No restriction. Where applicable, refer to the following regulatory provisions : Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments. Regulation (EC) nr 648/2004 (detergents). 1999/13/EC (VOC directive) Provisions related to directives 82/501/EC(Seveso), 96/82/EC(Seveso II):

No data available

15.2. Chemical safety assessment

This mixture(toner) has not carried out any Chemical Safety Assessment yet.

SECTION 16: Other information

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.