

## Product Information Sheet

### 1. Identification of The Substance/Preparation and of The Company/Undertaking

**1.1. Identification of the preparation:** Epson Developer Cartridge S050087

**1.2. Company/undertaking identification**

Distributor: EPSON AUSTRALIA PTY. LTD.,  
A.B.N. 91 002 625 783  
3 Talavera Road  
NORTH RYDE. NSW 2113  
Tel (02) 8899 3666  
**Contact:** Customer Satisfaction Manager

EPSON NZ Ltd  
Level 4, Epson House  
245 Hobson Street  
AUCKLAND. 1001  
Tel (09) 366 6855  
**Contact:** National Technical Manager

*Date Prepared:* August 1, 2007

**1.3. Emergency telephone:**

### 2. Hazard Identification

**2.1. Hazardous Classification:**

There are no significant hazards associated with this product.

**2.2. Adverse Human Health Effects:**

No symptoms expected with intended use.

**2.3. Environmental Effects:**

No data available

### 3. Composition/Information on Ingredients

Ink Composition	CAS No.	% By Weight
Carbon Black	1333-86-4	1 – 5 %
Proprietary organic materials	–	> 90 %
Proprietary organic pigments	–	1 – 5 %

### 4. First Aid Measures

**4.1. Eyes:** Immediately flush with a large amount of water for at least 15 minutes. If irritation persists, get medical attention.

**4.2. Skin:** Wash with soap and water.

**4.3. Inhalation:** Remove to fresh air. Rinse mouth with a large amount of water. If cough or other symptoms develop, get medical attention.

**4.4. Ingestion:** Rinse mouth with water. Give several glasses of water to drink. If necessary, get medical attention.

### 5. Fire Fighting Measures

**5.1. Flammability:** This material has no unusual fire or explosive hazards.

**5.2. Extinguishing Media:** Water spray, foam or dry chemical.

**5.3. Fire Fighting Instructions:** Be careful not to disperse into air.

**5.4. Fire and explosion hazards:** If dispersed in air, like most finely divided organic powders, may form an explosive mixture.

## 6. Accidental Release Measures

**6.1. Personal protections:** Not applicable under intended use.  
**6.2. Methods for cleaning up:** Wipe off with wet cloth and be careful not to disperse into air.

## 7. Handling And Storage

**7.1. Handling:** Do not incinerate toner or a toner cartridge. **Do not dismantle a cartridge.** Avoid dispersing toner.  
**7.2. Storage:** Keep in dark, cool, dry and well-ventilated area. Keep out of reach of children.  
**7.3. Specific use(s):** Not specified

## 8. Exposure Controls and Personal Protection

**8.1. Exposure limit values:** Not required  
**8.2. Exposure Controls:**  
**8.2.1. Occupational exposure control**  
ACGIH-TLV(USA) : 10mg/m<sup>3</sup>  
OSHA(USA) : 15mg/m<sup>3</sup>  
DFG-MAK(EU) : 6mg/m<sup>3</sup>  
Worksafe-TWA(Austl) : 10mg/m<sup>3</sup>  
**8.2.1.1. Respiratory protection**  
None required when cartridges are used as intended.  
**8.2.1.2. Hand protection**  
None required when cartridges are used as intended.  
**8.2.1.3. Eye protection**  
None required when cartridges are used as intended.  
**8.2.1.4. Skin protection**  
None required when cartridges are used as intended.  
**8.2.2. Environmental exposure control**  
Not established  
**8.3. Engineering Controls**  
No specific controls are needed.

## 9. Physical and Chemical Properties of Ink Formulation

\*Based on properties of chemically similar material.

<i>Appearance:</i>	Black powder
<i>Odor:</i>	Little odor
<i>Boiling point:</i>	Not applicable
<i>Softening point:</i>	120 – 130°C*
<i>Vapor pressure</i>	Not applicable
<i>Solubility in water:</i>	Insoluble
<i>Specific gravity:</i>	1.2
<i>Flash point:</i>	Not applicable
<i>Auto-Ignition Temperature:</i>	Over 300°C*
<i>Explosion limit:</i>	Not applicable
<i>Other data:</i>	None

## 10. Stability and Reactivity

- 10.1. Stability and Reactivity:** Stable
- 10.2. Spontaneous combustibility/Reactivity with water:** None
- 10.3. Self-reactivity/Explosive:** None
- 10.4. Dust explosion:** Like most organic materials in powder form, it can form explosive mixtures when dispersed in air.
- 10.5. Hazardous decomposition products:** CO and CO<sub>2</sub>, when combusting

## 11. Toxicology and Health Hazards

\*Based on toxicology data of chemically similar material.

*Acute Health Hazards:*

*Mutagenicity:* Negative in Ames Assay

*Carcinogenicity:* Carbon Black is classified as “Group 2B (possibly carcinogenic to humans)” by IARC. But 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”.

<i>Toxicity Data:</i>	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalant LC <sub>50</sub>
	> 5000mg/kg(Rats)*	> 2000mg/kg(Rabbit)*	> 0.74mg/L/4hr*

Reproduction and Development: Not classified as “Reproductive and Development chemicals”.

Chronic toxicity of long term toxicity :

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<sup>3</sup>) exposure group, and a minimal to mid degree of fibrosis was noted in 22% of the animals in the middle (4mg/m<sup>3</sup>) exposure group. But no pulmonary change was reported in the lowest (1mg/m<sup>3</sup>) exposure group, the most relevant level to potential human exposures.\*

## 12. Ecological Information

**12.1. Ecotoxicity** No data available on the adverse effects of this ink on the environment

**12.2. Mobility** No data available on the adverse effects of this ink on the environment

**12.3. Persistence and degradability**



No data available on the adverse effects of this ink on the environment

**12.4. Bioaccumulative potential**

No data available on the adverse effects of this ink on the environment

**12.5. Other adverse effects** No data available

**13. Disposal Considerations**

Disposal should be in accordance with federal, state, and local requirements.

**14. Transportation Information**

No hazardous classification

**15. Regulatory Considerations**

Not classified as hazardous preparation under Council Directive 88/379/EEC.

**16. Other Information**

*This “Product Information 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.*

*In consideration of our environment and world neighbors, all genuine EPSON toner cartridges are engineered and based on an “Ecologically Friendly” technology. EPSON toner cartridges contain no CFCs or harsh liquid solvents.*

“Wait until you see it in **EPSON COLOR**”