

## Material Safety Data Sheet

In accordance with EU REACH Regulation (EC) No 1907/2006, EPSON has considered that a Safety Data Sheet is not required for the ink contained in this cartridge. To insure Epson's compliance with REACH information requirements, we will provide preparation information under the following format. Epson is not obliged to provide this information within European local languages.

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

**1.1. Identification of the preparation:** EPSON Ribbon Cartridge S015384

**1.2. Use of the substance/preparation:** Dot Impact Printing

#### 1.3. Company/undertaking identification

**Manufacturer/Distributor:** EPSON EUROPE B.V.  
**Address:** Entrada 701,  
1096 EJ AMSTERDAM  
The Netherlands

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**Date Prepared:** 25 December 2008

**Revision:** A

**1.4. Emergency telephone:** +81-263-52-2552 (Mon-Fri, 9AM-5PM JST)

### 2. Hazards Identification

#### 2.1. Emergency Overview:

This ink does not meet the criteria for dangerous classification according to EU Directive 1999/45/EC. Ink component is a black liquid that may cause eye irritation. Avoid contact with eyes or clothing. In the case of skin contact, wash with soap and water. Keep out of reach of children.

#### 2.2. Potential Health Effects:

**Eyes:** Ink contact with eye may be mildly irritating.

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

**Inhalation:** Intentional exposure to ink vapors (mist) will cause respiratory irritation.

**Ingestion:** May cause upset stomach.

### 3. Composition/Information on Ingredients

*This is an oil-based ink formulation*

Ink Composition	CAS No.	EEC No.	EU registration No.	% By Weight	EU Symbols	EU R-phrase	EU OELs	Remark
Carbon black	1333-86-4	215-609-9	Not available for the moment	1 – 5	None	None	None	None
Colorant	Trade secret	Trade secret	Not available for the moment	< 30	None	None	None	None
Ester oils	Trade secret	Trade secret	Not available for the moment	< 45	None	None	None	None
Fatty acids	67701-06-8	266-930-6	Exempted	30 – 35	None	None	None	None

#### 4. First Aid Measures

- 4.1. Eyes:** Immediately flush with room temperature, low pressure and clean water for at least 15 minutes. Seek medical attention if eye irritation continues.
- 4.2. Skin:** Wash surface areas with soap and water. Wash soiled clothing before re-wearing. Consult a physician if irritation continues.
- 4.3. 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.
- 4.4. Ingestion:** Seek medical advice; and attention if stomach continues to be upset.

#### 5. Fire-Fighting Measures

- 5.1. Flammability:** Combustibles
- 5.2. Extinguishing Media:** Water, foam, dry chemical or carbon dioxide
- 5.3. Fire Fighting Instructions:** No special fire fighting procedures are required other than breathing apparatus.  
No special explosion hazards are known.

#### 6. Accidental Release Measures

- 6.1. Personal precautions:** Eye or Skin protection required during clean-up. Use proper ventilation.
- 6.2. Environmental precautions:** Do not release to sewer, surface- or ground-water.
- 6.3. Methods for cleaning up:** If a spill occurs, use sponges to wipe-up ink, then rinse area with damp cloth. Place waste in closed container for disposal. Do not dispose of waste to the sewer. Wash hands with soap and water.

#### 7. Handling And Storage

- 7.1. Handling:** Use proper ventilation and no fire in work place. Put protection wear that has electrical conductivity in case of work. Keep out of reach of children and do not drink ink. Do not dismantle cartridge. Make sure cartridge is dry before insertion into printer housing.
- 7.2. Storage:** 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 use(s):** Not specified

#### 8. Exposure Controls and Personal Protection

- 8.1. Exposure limit values:** Not established
- 8.2. Exposure Controls:**
- 8.2.1. Occupational exposure control**  
Not required under suitable use as setting the cartridge on the printer.
- 8.2.1.1. Respiratory protection**  
Not required under suitable use as setting the cartridge on the printer.
- 8.2.1.2. Hand protection**  
Not required under suitable use as setting the cartridge on the printer.
- 8.2.1.3. Eye protection**  
Not required under suitable use as setting the cartridge on the printer.
- 8.2.1.4. Skin protection**  
Not required under suitable use as setting the cartridge on the printer.
- 8.2.2. Environmental exposure control**  
Not established

## 9. Physical and Chemical Properties of Ink Formulation

### 9.1. General information

*Appearance:* Nylon 66 fabric with black inks  
*Odor:* Slightly

### 9.2. Important health, safety and environmental information

*pH:* Not applicable  
*Boiling point:* Over 200°C  
*Flash point:* No data available  
*Flammability (solid, gas):* Not applicable  
*Explosive properties:* No data available  
*Oxidizing properties:* None  
*Vapor pressure:* No data available  
*Relative density:* about 1.0  
*Solubility:* No data available  
*Water solubility:* Insoluble  
*Partition coefficient: n-octanol/water:* No data available  
*Viscosity:* No data available  
*Vapor density:* No data available  
*Evaporation rate:* No data available

### 9.3. Other information

*Melting point:* No data available

## 10. Stability and Reactivity

*Stability:* Stable under normal temperature

*Hazardous polymerization:* No data available

**10.1. Conditions to avoid:** High and freezing temperatures

**10.2. Materials to avoid:** Oxidizers and explosives

**10.3. Hazardous decomposition products:** No data available

## 11. Toxicological Information

*Routes Of Overexposure:* Eye, skin, inhalation, and oral

*Acute Health Hazards:*

- Overexposure of eye surface to ink may be mildly irritating
- Overexposure of skin to ink contact may cause irritation and in some people swelling and redness
- Intentional inhalation overexposure to ink vapors may result in respiratory tract irritation and anesthesia
- Intentional or accidental oral ingestion may cause an upset stomach

*Chronic Health Hazards:* None known

*Mutagenicity:* Not meet the criteria for classification according to EU Directive 1999/45/EC

*Carcinogenicity:* With excessive exposure, carbon black has been listed as a possible human carcinogen. However, as engineered within this ink cartridge, emissions to air of carbon black during normal printing use have not been found. IARC, the International Agency for Research on Cancer, has found printing inks to be not classifiable as human carcinogens.

*Toxicity Data:* Oral LD<sub>50</sub>: Not meet the criteria for classification according to EU Directive 1999/45/EC

Dermal LD<sub>50</sub>: Not meet the criteria for classification according to EU Directive 1999/45/EC

Inhalant LC<sub>50</sub>: No data available

*Eye irritating:* Not meet the criteria for classification according to EU Directive 1999/45/EC

*Skin irritating:* Not meet the criteria for classification according to EU Directive 1999/45/EC

*Skin sensitizing:* Not meet the criteria for classification according to EU Directive 1999/45/EC

## 12. Ecological Information

<b>12.1. Ecotoxicity</b>	No data available on the adverse effects of this ink on the environment
<b>12.2. Mobility</b>	No data available on the adverse effects of this ink on the environment
<b>12.3. Persistence and degradability</b>	No data available on the adverse effects of this ink on the environment
<b>12.4. Bioaccumulative potential</b>	No data available on the adverse effects of this ink on the environment
<b>12.5. Result of PBT assessment</b>	Has not carried out PBT assessment
<b>12.6. Other adverse effects</b>	No data available

**13. Disposal Considerations**

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

**14. Transport Information**

UN Class/UN Number: Not applicable  
DOT, IMO, or IATA : Not hazardous classification

**15. Regulatory Information**

*EU Information:*

*Chemical Safety Assessment according to (EC)1907/2006:*

This ink has not carried out any Chemical Safety Assessment yet.

*Symbols and indication according to 1999/45/EC:*

This ink does not meet the criteria for classification as dangerous.

*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 8(a) Inventory Update Rule:

Subject to a Special Regulatory Action under TSCA (2002 EPA Instructions, App. B) 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 (Manufactured article)

*Australia Information:*

Statement of Hazardous Nature: Not classified as hazardous according to criteria of NOHSC

**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.*