

# **Material Safety Data Sheet**

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

1.1. Product identifier: Epson Ink Cartridge T1591

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

Identified uses; Ink for Inkjet 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

TEL: +31-20-314-5000 FAX: +31-20-314-5100

e-mail: <u>chemicals@epson-europe.com</u>

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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); No data available

## **SECTION 3: Composition/information on ingredients**

Substance / Mixture: Mixture (Ink Composition)

Ink Composition	CAS No.	EEC No.	EU registration No.	% By Weight	EU Symbols	EU R-phrase	EU OELs	Remark
Water	7732-18-5	231-791-2	Exemption	< 80	None	None	None	None
Glycerols	Trade secret	Trade secret	Not available for the moment	10 - 15	None	None	None	None
Proprietary organic materials	Trade secret	Trade secret	Not available for the moment	10 - 15	None	None	None	None
Carbon black	1333-86-4	215-604-9	Not available for the moment	1 - 5	None	None	None	None
Triethanolamine	102-71-6	203-049-8	Not available for the moment	1 - 5	None	None	None	None
Colorant	Trade secret	Trade secret	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:

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

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
- 5.2. Special hazards arising from the substance or mixture: None
- **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 sponges to wipe-up ink.
  - **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 and do not drink ink.Do not dismantle cartridge.
  - 7.1.2. Advice on general occupational hygiene:

Avoid contact with eyes or clothing. In the case of skin contact, wash with soap and water.

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. Make sure cartridge is dry before insertion into printer housing.

7.3. Specific end use(s): Not specified

### **SECTION 8: Exposure controls/personal protection**

- 8.1. Control parameters: Not established
- 8.2. Exposure Controls
  - 8.2.1. Appropriate engineering controls: 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 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 controls: Not established



## **SECTION 9: Physical and chemical properties**

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

Appearance: Black Liquid Odour: Slightly

Odour threshold: No data available
 pH: 8.0 to 9.0at 20°C
 Melting point / freezing point: No data available
 Initial boiling point and boiling range: No data available

Flash point: Not detected until 120°C (Closed cup, ASTM D3278)

Evaporation rate: No data available
Flammability (solid, gas): Not applicable (liquid)
Upper/lower flammability or explosive limits: No data available
Vapor pressure: No data available
Vapor density: No data available
Relative density: 1.07 at 20 °C
Solubility(ies): Complete

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

No data available

No data available

Less than 5 mPa·s

Explosive properties: None Oxidizing properties: None 9.2. Other information: None

### **SECTION 10:Stability and reactivity**

10.1. Reactivity: Stable under normal temperature10.2. Chemical stability: Stable under normal temperature

10.3. Possibility of hazardous reactions: None

10.4. Conditions to avoid:High and freezing temperatures10.5. Incompatible materials:Oxidizers and explosives

10.6. Hazardous decomposition products: No data available

#### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects:

Acute toxicity: Not meet the criteria for classification according to EU Directive 1999/45/EC

Oral  $LD_{50}$ : > 2500mg/kg (Rats) Dermal  $LD_{50}$ : > 2000mg/kg (Rats) Inhalant  $LC_{50}$ : Not applicable

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

Mild irritating (Rabbits, OECD 405)

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

Mild irritating (Rabbits, OECD 404)

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

Non-sensitizing

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

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.

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

Negative (by Ames test)



Toxicity for reproduction: Not meet the criteria for classification according to EU Directive 1999/45/EC

## **SECTION 12:Ecological information**

12.1. Toxicity:No data available12.2. Persistence and degradability:No data available12.3. Bioaccumulative potential:No data available12.4. 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 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:

TSCA Section 5 Significant New Use Rule Regulation:

TSCA Section 8(a) Preliminary Assessment Information Rule (PAIR):

TSCA Section 12(b) One-Time Export Notification Regulated:

California Proposition 65:

Not regulated

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 *15.2. Chemical safety assessment:* This mixture(ink) 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.