

## Product Information Sheet

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

**1.1. Identification of the preparation:** Epson Ink Cartridge, T5964

**1.2. Use of the substance/preparation:** Inkjet Printing

**1.3. Company/undertaking identification**

**Manufacturer/Distributor:** SEIKO EPSON CORPORATION  
**Address:** 80 Harashinden, Hirooka,  
 Shiojiri-shi, Nagano-ken, 399-0785  
 JAPAN  
**TEL:** +81-263-52-2552 **FAX:** +81-263-53-3702

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

### 2. Hazard Identification

Not classified as hazardous preparation under EU Directive 1999/45/EC.

**2.1. Emergency Overview:**

Ink component is a colored 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. It is not expected to cause an allergic skin reaction.

**Inhalation:** Intentional exposure to ink vapors may cause respiratory irritation.

**Ingestion:** May cause upset stomach.

### 3. Composition/Information on Ingredients

*This is an aqueous ink formulation*

Ink Composition	CAS No.	% By Weight
Proprietary dyes and pigments	-	< 5 %
Proprietary organic materials	-	10 – 15 %
Glycerols	-	10 - 15 %
Ethylene glycol	107-21-1	< 5 %
Others	-	< 5 %
Water	7732-18-5	balance

#### 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 rewearing. Consult a physician if irritation continues.
- 4.3. Inhalation:** Remove subject to ventilated fresh air. Consult physician if necessary.
- 4.4. Ingestion:** Seek medical advice; and attention if stomach continues to be upset.

#### 5. Fire Fighting Measures

- 5.1. Flammability:** Not Flammable
- 5.2. Extinguishing Media:** 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 protections:** Eye or skin protection required during clean-up. Use proper ventilation.
- 6.2. Methods for cleaning up:** If a spill occurs, use sponges to wipe-up ink, and 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:** Avoid contact with eyes, skin and clothing. Keep out of reach of children and do not drink ink.
- 7.2. Storage:** Do not store in high or freezing temperatures. Keep out of direct sunlight. Do not store with oxidizing agents or explosives. Store in a dry area.
- 7.3. Specific use(s):** Not specified

#### 8. Exposure Controls and Personal Protection

- 8.1. Exposure limit values:** No required
- 8.2. Exposure Controls:**
- 8.2.1. Occupational exposure control**  
No required
- 8.2.1.1. Respiratory protection**  
No required when cartridges are used as intended
- 8.2.1.2. Hand protection**  
No required when cartridges are used as intended
- 8.2.1.3. Eye protection**  
No required when cartridges are used as intended
- 8.2.1.4. Skin protection**  
No required when cartridges are used as intended
- 8.2.2. Environmental exposure control**  
Not established
- 8.3. Engineering Controls**  
No required

#### 9. Physical and Chemical Properties of Ink Formulation

- 9.1. General information**
- Appearance:** Yellow Liquid

*Odor:* None

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

*pH:* About 9.4 at 20°C / 68 °F  
*Boiling point:* No data available  
*Melting point:* No data available  
*Flash point:* Not detected until 100°C / 212 °F (Closed cup, ASTM D3278)  
*Autoflammability:* None  
*Explosive properties:* None  
*Oxidizing properties:* None  
*Vapor density:* No data available  
*Relative density:* 1.07 at 20 °C / 68 °F  
*Solubility in water:* Complete  
*Solubility in fat:* No data available  
*Partition coefficient:* No data available  
*Viscosity:* Less than 5 mPa·s

**9.3. Other information** Not specified

**10. Stability and Reactivity**

*Stability* Stable  
*Hazardous polymerization* Will not occur

**10.1. Conditions to avoid:** None  
**10.2. Materials to avoid:** Oxidizers and explosives  
**10.3. Hazardous decomposition products:** None

**11. Toxicology and Health Hazards**

\*Based on toxicology data of chemically similar material

*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
- Intentional or accidental oral ingestion may cause an upset stomach

*Chronic Health Hazards:* None known

*Mutagenicity:* The ink does not meet the criteria for classification according to EU Directive 1999/45/EC

*Carcinogenicity:* Not contain any substances listed in IARC Monographs (1,2A and 2B)

<i>Toxicity Data:</i>	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalant LC <sub>50</sub>
	The ink does not meet the criteria for classification according to EU Directive 1999/45/EC	The ink does not meet the criteria for classification according to EU Directive 1999/45/EC	Not Applicable

*Eye irritating:* The ink does not meet the criteria for classification according to EU Directive 1999/45/EC  
*Skin irritating:* The ink does not meet the criteria for classification according to EU Directive 1999/45/EC  
*Skin sensitizing:* The ink does not meet the criteria for classification according to EU Directive 1999/45/EC

**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 national and local requirements.

**14. Transportation Information**

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

**15. Regulatory Considerations**

**U.S. Regulations:**

*TSCA Inventory:* All components are compliant with TSCA chemical inventory regulations or exempted.

**EU Regulations:**

*EU Inventory:* All components are compliant with EU chemical inventory regulations or exempted.

*Labeling:* This ink does not need to be labeled in accordance with EU Directive 1999/45/EC.

**16. Other Information**

*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.*