

Safety Data Sheet

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

- 1.1. Product identifier:** EPSON INK CARTRIDGE T715A
- 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: SEIKO EPSON CORPORATION
Address: 80 Harashinden, Hirooka,
 Shiojiri-shi, Nagano-ken, 399-0785
 JAPAN
TEL: +81-263-52-2552 **FAX:** +81-263-53-3702
e-mail: msds_hro@exc.epson.co.jp
Date Prepared: 30 August 2013
Revision: A
- 1.4. Emergency telephone number:** +81-263-52-2552 (Mon-Fri, 9AM-5PM JST)

SECTION 2: Hazards identification

- 2.1. Classification of the mixture:**
 Classification (UN GHS);
 SKIN CORROSION/IRRITATION: Hazard category 2
- 2.2. Label elements:** Label in Accordance with 1999/45/EC



- Symbols;
- Signal word; Warning
- Hazard statements; (H315) Causes skin irritation.
(H227) Combustible liquid.
- Precautionary statements;
- (P264) Wash hands thoroughly after handling.
 - (P280) Wear protective gloves/protective clothing/eye protection/face protection.
 - (P302+P352) IF ON SKIN: Wash with plenty of soap and water.
 - (P332+P313) If skin irritation occurs: Get medical advice/attention.
 - (P362+P364) Take off contaminated clothing and wash before reuse.
 - (P210) Keep away from open flames/hot surfaces. No smoking.
 - (P370+P378) In case of fire: Use alcohol resistant foam for extinction.
 - (P403+P235) Store in a well-ventilated place. Keep cool.
 - (P501) Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

SECTION 3: Composition/information on ingredients

Substance / Mixture: Mixture (Ink Composition)

| Ink Composition | CAS No. | % By Weight | Remark |
|--------------------------------------|-----------|-------------|--------|
| Diethylene Glycol Diethyl Ether | 112-36-7 | 50-60 | None |
| Diethylene Glycol Methyl Ethyl Ether | 1002-67-1 | 15-25 | None |

| | | | |
|-------------------------------|--------------|-------|------|
| Titanium dioxide | 13463-67-7 | 10-20 | None |
| Proprietary organic materials | Trade secret | 5-15 | 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 :** IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.
If skin irritation occurs: Get medical advice/attention.
- 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.
IF SWALLOWED: Do not induce vomiting.

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:** Water spray, dry chemical, carbon dioxide or, alcohol-resistant foam.
- 5.1.2. Unsuitable extinguishing media:** None

5.2. Special hazards arising from the substance or mixture: None.

5.3. Advice for firefighters: Extinguish to use fire fighting media or plentiful fog water. Put protection wear without fail in case of fire fighting work; do not work in the leeward.

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: Please refer SECTION 13 for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- 7.1.1. Recommendations:** Use proper ventilation and no fire in work place.
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 skin, 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 the cartridge 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:

Diethylene glycol diethyl ether (CAS No. 112-36-7)

California OELs (California Code of Regulations, Title 8, Section 5155. Airborne Contaminants)

The 8-Hour TWA Exposure Value: 5 ppm

The 8-Hour TWA Exposure Value: 33 mg/m³

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.

If there is a possibility of exposure to raw ink: Wear protective gloves/ protective clothing/ eye protection/ face protection.

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.

If there is a possibility of exposure to raw ink: Wear eye protection/ face protection.

(b) skin protection: hand protection & others:

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

If there is a possibility of exposure to raw ink: Wear protective gloves/ protective clothing.

(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: | White Liquid |
| Odour: | Slightly |
| Odour threshold: | No data available |
| pH: | Not applicable |
| Melting point / freezing point: | No data available |
| Initial boiling point and boiling range: | No data available |
| Flash point: | 73.7°C (Closed cup) |
| 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: | No data available |
| Solubility(ies): | Soluble |
| Partition coefficient: n-octanol/water: | No data available |
| Auto-ignition temperature: | No data available |
| Decomposition temperature: | No data available |
| Viscosity: | Less than 5 mPa·s at 20°C |
| Explosive properties: | No data available |
| Oxidizing properties: | None |

9.2. Other information: 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
- 10.5. 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:** Oral LD₅₀: No data available
Dermal LD₅₀: No data available
- Irritation**
 - Eye:** No data available
 - Skin:** Hazard category 2 for classification according to UN GHS
- Corrosivity:** No data available
- Sensitisation** **Skin:** No data available
- Carcinogenicity:** No data available

Titanium dioxide is classified as “possibly carcinogen to human” (Group 2B) in animal chronic inhalation studies. The tumor formulation observed in only rats with animal chronic inhalation study are 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. Epidemiological study to date have not revealed any evidence of the relation between exposure to titanium dioxide and diseases of the respiratory tract beyond general effects of dust.

- Mutagenicity:** No data available
- Toxicity for reproduction:** No data available

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:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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:

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|-------------------------------|----------------|
| 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: | Not regulated |
| TSCA Section 5 Significant New Use Rule Regulation: proposed | |
| Ingredient: | DEGDEE (CAS# 112-36-7) |
| Reference: 76FR40850 | |
| TSCA Section 8(a) Preliminary Assessment Information Rule (PAIR): | Not regulated |
| TSCA Section 12(b) One-Time Export Notification Regulated: | |
| Ingredient: | DEGDEE (CAS# 112-36-7) |
| Regulation: TSCA 5 Proposed SUNR | |
| Clean Air Act Section 112, Hazardous Air Pollutants: | DEGDEE (CAS# 112-36-7) |
| | DEGMEE (CAS#1002-67-1) |
| EPCRA (SARA Title III) Section 313: | DEGDEE (CAS# 112-36-7) |
| | DEGMEE (CAS#1002-67-1) |
| NFPA Hazard Rating : | Health (1), Flammability (2), Instability/Reactivity (0), Other (0) |
| HMIS Hazard Rating : | Health (1), Flammability (2), Instability/Reactivity (0), PPE (D) |
| California Proposition 65: | Not regulated |

Canada Information:

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|---------------------------|---------------------------------------|
| WHMIS Controlled Product: | Not applicable (Manufactured article) |
|---------------------------|---------------------------------------|

Australia Information:

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|--------------------------------|---|
| Statement of Hazardous Nature: | Classified as Irritant according to criteria of NOHSC |
|--------------------------------|---|

New Zealand Information

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|--|---------------|
| Hazardous Substances and New Organisms Act 1996: | Not regulated |
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15.2. Chemical safety assessment: This ink has not carried out any Chemical Safety Assessment yet.

SECTION 16:Other information

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| Revision history | | | |
| Established | Rev. A | 30 August 2013 | new document |

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.