

Safety Data Sheet

Not classified as hazardous according to criteria of NOHSC

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

- 1.1. Product identifier:** EPSON Ink cartridge T477
- 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:**
- Supplier in Australia:** EPSON Australia Pty Limited
3 Talavera Road, North Ryde, NSW 2113, Australia
(02) 8899 3666 www.epson.com.au
- Supplier in N.Z.:** EPSON New Zealand Pty Limited
7-9 Fanshawe Street, Auckland 1010, New Zealand
(09) 366 6855 www.epson.co.nz
- Date Prepared:** 19 June 2013
- Revision:** A
- 1.4. Emergency telephone number:** Australia (02) 8899 3666 (Mon-Fri, 9AM-5PM, AEST)
New Zealand (09) 366 6855 (Mon-Fri, 9AM-5PM, NZST)

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
TEGBE	143-22-6	205-592-6	Not available for the moment	About 10	X _i	R-41	None	None
Ethylene glycol	107-21-1	203-473-3	Not available for the moment	5 - 10	X _n	R-22	See section 8	None
Proprietary organic materials	Trade secret	Trade secret	Not available for the moment	1 - 5	None	None	None	None
Colorants	Trade secret	Trade secret	Not available for the moment	1 - 5	None	None	None	None

Triethanolamine	102-71-6	203-049-8	Not available for the moment	< 1	None	None	None	None
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Please refer to the section 16, where the full text of each relevant R-phrased.

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:

Ethylene glycol (CAS No. 107-21-1)

EU: The threshold limit is: 52 mg/m³

The threshold limit is: 20 ppm

The STEL is: 104 mg/m³
The STEL is: 40 ppm

US: ACGIH Threshold Limit Values (2008), AEROSPL ONLY

The Ceiling Exposure Limit is: 100 mg/m³

OSHA Table Z-1-A (29 CFR 1910.1000) (Revoked June 30, 1993)

OSHA ceiling concentration is: 50 ppm

OSHA ceiling concentration is: 125 mg/m³

Australia: OELs, VAPOUR

The Time Weighted Average is: 20 ppm.

The Time Weighted Average is: 52 mg/m³

The Short Term Exposure Limited is: 40 ppm

The Short Term Exposure Limited is: 104 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.

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:	Cyan liquid
Odour:	Slightly
Odour threshold:	No data available
pH:	8.5 ~ 10.5 at 20°C
Melting point / freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	Not detected until 95°C (Closed cup, ASTM D3278)
Evaporation rate:	No data available
Flammability (solid, gas):	Not applicable
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:	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:	None
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:

<i>Acute toxicity:</i>	Not meet the criteria for classification according to EU Directive 1999/45/EC
	Oral LD ₅₀ : >2000mg/kg (Rats)
	Dermal LD ₅₀ : >2000mg/kg (Rats)
	Inhalant LC ₅₀ : Not applicable
<i>Irritation</i>	<i>Eye</i> : Not meet the criteria for classification according to EU Directive 1999/45/EC Non irritating (Rabbits, OECD 405)
	<i>Skin</i> : Not meet the criteria for classification according to EU Directive 1999/45/EC Non-irritating (Rabbits, OECD 404)
<i>Corrosivity:</i>	Not meet the criteria for classification according to EU Directive 1999/45/EC
<i>Sensitisation</i>	<i>Skin</i> : Not meet the criteria for classification according to EU Directive 1999/45/EC Non-sensitizing
<i>Carcinogenicity:</i>	Not meet the criteria for classification according to EU Directive 1999/45/EC Not contain any substances listed in IARC Monographs (1,2A and 2B)
<i>Mutagenicity:</i>	Not meet the criteria for classification according to EU Directive 1999/45/EC Negative (by Ames Test)
<i>Toxicity for reproduction:</i>	Not meet the criteria for classification according to EU Directive 1999/45/EC

SECTION 12: Ecological information

<i>12.1. Toxicity:</i>	No data available
<i>12.2. Persistence and degradability:</i>	No data available
<i>12.3. Bioaccumulative potential:</i>	No data available
<i>12.4. Mobility in soil:</i>	No data available
<i>12.5. Results of PBT and vPvB assessment:</i>	Has not carried out PBT and vPvB assessment
<i>12.6. Other adverse effects:</i>	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

<i>14.1. UN number:</i>	Not applicable
<i>14.2. UN proper shipping name:</i>	Not applicable
<i>14.3. Transport hazard class(es):</i>	Not applicable
<i>14.4. Packing group:</i>	Not applicable
<i>14.5. Environmental hazards:</i>	Not applicable
<i>14.6. Special precautions for user:</i>	Not applicable
<i>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</i>	Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

<i>EU Information:</i>	
Regulation (EC) No 2037/2000:	Is not subject
Regulation (EC) No 850/2004:	Is not subject
Regulation (EC) No 689/2008:	Is not subject
<i>US Information:</i>	
TSCA Section 4(a) Final Test Rules Regulated:	Not regulated
TSCA Section 5 Significant New Use Rule Regulation:	Not regulated
TSCA Section 8(a) Preliminary Assessment Information Rule (PAIR):	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

New Zealand Information

Hazardous Substances and New Organisms Act 1996: Not regulated

15.2. Chemical safety assessment: This ink has not carried out any Chemical Safety Assessment yet.

SECTION 16: Other information

<i>List of relevant R-phrases:</i>	R-22	Harmful if swallowed.
	R-41	Risk of serious damage to eyes.

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.