

Material Safety Data Sheet

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

1.1. Product identifier: **EPSON Ink Cartridge T014**

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:

EPSON EUROPE B.V.
Azie building, Atlas ArenA, Hoogoorddreef
5,1101 BA Amsterdam
Zuidoost The Netherlands
www.epson-europe.com
FAX: +31-20-314-5100
chemicals@epson-europe.com
30 May 2012
А
Giftnotruf Berlin +49 030 19240

SECTION 2: Hazards identification

2.1. Classification of the mixture:	
Classification (1999/45/EC	c); 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
23 Other hazards.	

2.3. Other hazards:

Classification (PBT,vPvB (EC)No1907/2006); No data available

SECTION 3: Composition/information on ingredients

Substance / Mixture: Mixture (Ink Composition)

<Cvan ink>

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
Proprietary organic materials	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
Glycerols	Trade secret	Trade secret	Not available for the moment	about 10	None	None	None	None
Colorants	Trade secret	Trade secret	Not available for the moment	1 - 5	None	None	None	None
Triethanol amine	102-71-6	203-049-8	Not available for the moment	< 1	None	None	None	None

Please refer to the section 16, where the full text of each relevant R-phrase.



<Magenta ink>

Ink Composition	CAS No.	EEC No.	EU registration No.	% By Weight	EU Symbol s	EU R-phrase	EU OELs	Remark
Water	7732-18-5	231-791-2	Exemption	< 80	None	None	None	None
TEGBE	143-22-6	205-592-6	Not available for the moment	about 10	X _i	R-41	None	None
Glycerols	Trade secret	Trade secret	Not available for the moment	about 10	None	None	None	None
Diethylene glycol	111-46-6	203-872-2	Not available for the moment	5 - 10	X _n	R-22	None	None
Proprietary organic materials	Trade secret	Trade secret	Not available for the moment	5 - 10	None	None	None	None
Azo Dye	Trade secret	Trade secret	Not available for the moment	1 - 5	Xi	R-36 R-52/53	None	None
Triethanol amine	102-71-6	203-049-8	Not available for the moment	< 1	None	None	None	None

Please refer to the section 16, where the full text of each relevant R-phrase.

<yellow ink=""></yellow>		1	1		i	t		•
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	about 10	None	None	None	None
TEGBE	143-22-6	205-592-6	Not available for the moment	about 10	X _i	R-41	None	None
Diethylene glycol	111-46-6	203-872-2	Not available for the moment	5 - 10	X _n	R-22	None	None
Proprietary organic materials	Trade secret	Trade secret	Not available for the moment	1 - 5	None	None	None	None
Azo Dye	Trade secret	Trade secret	Not available for the moment	1 - 5	Xi	R-41, R-43	None	None
Triethanol amine	102-71-6	203-049-8	Not available for the moment	< 1	None	None	None	None

Please refer to the section 16, where the full text of each relevant R-phrase.

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:

- 2, 2-Oxybisethanol (CAS No. 111-46-6)
- USA: OELs (WEELs)

WEEL 8-hour TWA is : 10 mg/ m^3

Australia: OELs

The Time Weighted Average is: 23 ppm. The Time Weighted Average is: 100 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:
 - (c) respiratory protection:
 (d) thermal hazards:
 Not required under suitable use as setting the cartridge on the printer. 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:

9.1. Information on basic physical and cher	nical properties:
Appearance:	Cyan, Magenta, Yellow Liquid
Odour:	Slightly
Odour threshold:	No data available
pH:(Cyan ink)	8.5 ~ 9.8 at 20°C
(Magenta ink)	8.6 ~ 9.6 at 20°C
(Yellow ink)	8.5 ~ 9.5 at 20°C
Melting point / freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:(Cyan ink)	Not detected until 100°C (Closed cup, ASTM D3278)
(Magenta ink)	Not detected until 110°C (Closed cup, ASTM D3278)
(Yellow ink)	Not detected until 100°C (Closed cup, ASTM D3278)
Evaporation rate:	No data available
Flammability (solid, gas):	Not applicable (liquid)
Upper/lower flammability or explosive lin	nits:No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density: (Cyan ink)	1.07 at 20°C
(Magenta ink)	1.08 at 20°C
(Yellow ink)	1.06 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

Stable under normal temperature
Stable under normal temperature
None
High and freezing temperatures
Oxidizers and explosives
No data available

SECTION 11: Toxicological Information

11.1. Information on toxicological effects:

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Acute toxicity:	Not meet the criteria for classification according to EU Directive 1999/45/EC
Oral LD	D_{50} : (Cyan ink) > 2500mg/kg (Rat)
	(Magenta ink) > 5000 mg/kg (Rat)
	(Yellow ink) > 2000 mg/kg (Rat)
Dermal L	D_{50} : > 2000mg/kg (Rat)
Inhalant l	LC_{50} : Not applicable
Irritation:	<i>Eye:</i> Not meet the criteria for classification according to EU Directive 1999/45/EC
	(<i>Cyan, Yellow ink</i>) Minimal irritating (Rabbit)
	(Magenta ink) Mild irritating (Rabbit)
	<i>Skin:</i> Not meet the criteria for classification according to EU Directive 1999/45/EC
	(<i>Cyan ink</i>) Mild irritating (Rabbit)
	(Magenta Yellow ink) Non irritating (Rabbit)
Corrosivity:	Not meet the criteria for classification according to EU Directive 1999/45/EC
Sensitisation:	<i>Skin:</i> Not meet the criteria for classification according to EU Directive 1999/45/EC
Carcinogenicity:	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)



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 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 asses	sment: 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:	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:Not classified as hazardous according to criteria of NOHSC

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

SECTION 16: Other Information

List of relevant R-phrases:

- R-22 Harmful if swallowed.
- R-36 Irritating to eyes.
- R-41 Risk of serious damage of eyes.
- R-43 May cause sensitization by skin contact.
- R-52/53 Harmful to aquatic organisms, may cause long-term adverse defects in the aquatic environment.

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



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