

1.1. Product identifier Mixture identificatio	on:					
Trade name:		Ink Cartridge,	Light C	yan,	T7105	
1.2. Relevant identified u Recommended us		ubstance or mix	ure and u	ises ac	dvised against	
	Ink for inkje					
1.3. Details of the supplie Company:	er of the safe	ety data sheet				
		JROPE B.V.				
	Zuidoost Th	ng, Atlas ArenA, ne Netherlands	•			ısterdam
	Phone num				4-5000	
Competent person						
Date:	chemicalse	epson-europe. 20/10/2016	COM			
Revision:		1.0				
1.4. Emergency telephon	e number	1.0				
Phone number:		+31-20-314-50	000			
Giftnotruf Berlin;		+48 (0) 30 3	0686 790			
SECTION 2: Hazards identi	fication					
2.1. Classification of the		r mixture				
EC regulation crite						
		ified as dangero	us accord	ling to	Regulation EC	2 1272/2008
(CLP).						
Adverse physicoch		han health and e	environme	ntal ef	fects:	
No other ha	zards					
2.2. Label elements						
The product is not		s dangerous acc	oraing to	Regula	ation EC $1272i$	/2008 (CLP).
Hazard pictograms None	).					
Hazard statements						
None	•					
Precautionary state	ements:					
None						
Special Provisions						
		eet available on				
		enzisothiazol-3(	2H)-one;	1,2-b	enzisothiazolir	n-3-one. May
produce an a				البيم امي		l t
Special provisions None	according to	D Annex XVII of	кеасна	na suc	sequent amer	naments:
2.3. Other hazards						
vPvB Substances:	None - PBT	Substances: N	one			
Other Hazards:			0110			
No other has	zards					
SECTION 3: Composition/i	oformation	n on ingredier	nts			
3.1. Substances						
No						
3.2. Mixtures						
Hazardous compo	nents within	the meaning of	the CLP r	egulat	ion and related	d classification:
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Qty	Name	Ident. Numb	er	Classification
65% ~ 80%	Water	CAS: EC:	7732-18-5 231-791-2	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
7% ~ 10%	Glycerol	CAS: EC:	56-81-5 200-289-5	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
5% ~ 7%	2-[2-(2-butoxyethoxy)et hoxy]ethanol; TEGBE; triethylene glycol monobutyl ether	number: CAS: EC:	603-183-00-0 143-22-6 205-592-6 01-21194751 07-38	较 3.3/1 Eye Dam. 1 H318
0.5% ~ 1%	Triethanol amine	CAS: EC:	102-71-6 203-049-8	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
< 0.05%	1,2-benzisothiazol-3(2 H)-one; 1,2-benzisothiazolin-3- one	Index number: CAS: EC:	613-088-00-6 2634-33-5 220-120-9	<ul> <li>3.1/4/Oral Acute Tox. 4 H302</li> <li>3.2/2 Skin Irrit. 2 H315</li> <li>3.3/1 Eye Dam. 1 H318</li> <li>3.4.2/1-1A-1B Skin Sens.</li> <li>1,1A,1B H317</li> <li>4.1/A1 Aquatic Acute 1 H400</li> </ul>

#### **SECTION 4: First aid measures**

- 4.1. Description of first aid measures
  - In case of skin contact:
    - Wash with plenty of water and soap.
    - In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

- In case of Inhalation:
- Remove casualty to fresh air and keep warm and at rest.
- 4.2. Most important symptoms and effects, both acute and delayed None
- 4.3. Indication of any immediate medical attention and special treatment needed Treatment:
  - None

#### **SECTION 5: Firefighting measures**

- 5.1. Extinguishing media

  Suitable extinguishing media:
  Water.
  Carbon dioxide (CO2).
  Extinguishing media which must not be used for safety reasons:
  None in particular.
- 5.2. Special hazards arising from the substance or mixture

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Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

#### **SECTION 6: Accidental release measures**

- 6.1. Personal precautions, protective equipment and emergency procedures Wear personal protection equipment.
  - Remove persons to safety.

See protective measures under point 7 and 8.

- 6.2. Environmental precautions Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
  - Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections See also section 8 and 13

### **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists. Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed. Incompatible materials: None in particular. Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s) None in particular

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

- 8.1. Control parameters
  - Glycerol CAS: 56-81-5
    - OEL Type: OSHA LTE: 5 mg/m3 Notes: PEL, as mist, respirable fraction

- OEL Type: OSHA - LTE: 15 mg/m3 - Notes: PEL, as mist, total dust

- **DNEL Exposure Limit Values** 
  - No data available

PNEC Exposure Limit Values

2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether - CAS: 143-22-6

Target: Fresh Water - Value: 1.5 mg/l

Target: Freshwater sediments - Value: 5.77 mg/kg

Target: Marine water - Value: 0.15 mg/l

Target: Marine water sediments - Value: 0.13 mg/kg

Target: Microorganisms in sewage treatments - Value: 200 mg/l

8.2. Exposure controls

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Eye protection: Not needed for normal use. Anyway, operate according good working practices. Protection for skin: No special precaution must be adopted for normal use. Protection for hands: Not needed for normal use. Respiratory protection: Not needed for normal use. Thermal Hazards: None Environmental exposure controls: None Appropriate engineering controls: None

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

9.1. Information on basic physical and chemical properties Appearance and colour: Light Cyan Liquid Odour: Slightly Odour threshold: No data available 8.8 ~ 9.8 at 20 °C pH: -15 °C Melting point / freezing point: Initial boiling point and boiling range: No data available Solid/gas flammability: No data available Upper/lower flammability or explosive limits: No data available Vapour density: No data available Flash point: Does not flash until 100 °C / 212 ° F (closed cup method, ASTM D 3278) Evaporation rate: No data available Vapour pressure: No data available Relative density: at 20 °C 1.052 Solubility in water: Complete Solubility in oil: No data available Partition coefficient (n-octanol/water): No data available Auto-ignition temperature: No data available Decomposition temperature: No data available < 5 mPa·s Viscosity: at 20 °C Explosive properties: No data available Oxidizing properties: No data available 9.2. Other information Miscibility: No data available Fat Solubility: No data available Conductivity: No data available

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

- 10.1. Reactivity
- Stable under normal conditions
- 10.2. Chemical stability Stable under normal conditions
- 10.3. Possibility of hazardous reactions None
- 10.4. Conditions to avoid Stable under normal conditions.
- 10.5. Incompatible materials

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None in particular.

10.6. Hazardous decomposition products None.

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

11.1. Information on toxicological effects

Toxicological information of the mixture:

No data available

Toxicological information of the main substances found in the mixture:

Glycerol - CAS: 56-81-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Guinea pig = 7750 mg/kg - Source: Journal of Industrial Hygiene and Toxicology. Vol. 23, Pg. 259, 1941

Test: LDLo - Route: Oral - Species: Human = 1428 mg/kg - Source: "Toxicology of Drugs and Chemicals," Deichmann, W.B., New York, Academic Press, Inc., 1969Vol. -, Pg. 288, 1969. - Notes: BEHAVIORAL: HEADACHE

GASTROINTESTINAL: NAUSEA OR VOMITING

2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether - CAS: 143-22-6

a) acute toxicity:

Test: LD50 - Route: Dermal - Species: Rabbit = 3.54 ml/kg - Source: American Industrial Hygiene Association Journal. Vol. 23, Pg. 95, 1962.

Test: LD50 - Route: Oral - Species: Rat = 5300 mg/kg - Source: Office of Toxic Substances Report. Vol. OTS,

Triethanol amine - CAS: 102-71-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Guinea pig = 2200 mg/kg - Source: "Toxicometric Parameters of Industrial Toxic Chemicals Under Single Exposure," Izmerov, N.F., et al., Moscow, Centre of International Projects, GKNT, 1982Vol. -, Pg. 114, 1982.

Test: LD50 - Route: Oral - Species: Mouse = 5846 mg/kg - Source: Science Reports of the Research Institutes, Tohoku University, Series C: Medicine. Vol. 36(1-4), Pg. 10, 1989. - Notes: GASTROINTESTINAL: "HYPERMOTILITY, DIARRHEA" KIDNEY, URETER, AND BLADDER: OTHER CHANGES BEHAVIORAL: CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD

If not differently specified, the information required in Regulation (EU) 2015/830 listed below must be considered as 'No data available':

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure:
- j) aspiration hazard.

#### **SECTION 12: Ecological information**

- 12.1. Toxicity
  - Adopt good working practices, so that the product is not released into the environment. No data available
- 12.2. Persistence and degradability

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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
- vPvB Substances: None PBT Substances: None 12.6. Other adverse effects
  - None

### **SECTION 13: Disposal considerations**

- 13.1. Waste treatment methods
  - Recover if possible. In so doing, comply with the local and national regulations currently in force.

#### **SECTION 14: Transport information**

- 14.1. UN number
  - Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name No data available
- 14.3. Transport hazard class(es) No data available
- 14.4. Packing group No data available
- 14.5. Environmental hazards No data available
- 14.6. Special precautions for user No data available
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code No data available

### **SECTION 15: Regulatory information**

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Dir. 98/24/EC (Risks related to chemical agents at work)
  - Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

- Regulation (EC) n. 1272/2008 (CLP)
- Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
- Regulation (EU) 2015/830
- Regulation (EU) n. 286/2011 (ATP 2 CLP)
- Regulation (EU) n. 618/2012 (ATP 3 CLP)
- Regulation (EU) n. 487/2013 (ATP 4 CLP)
- Regulation (EU) n. 944/2013 (ATP 5 CLP)
- Regulation (EU) n. 605/2014 (ATP 6 CLP)
- Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
  - Restrictions related to the product:
    - No restriction.
  - Restrictions related to the substances contained:
    - No restriction.
- Where applicable, refer to the following regulatory provisions :
  - Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.
    - Regulation (EC) nr 648/2004 (detergents).



#### 1999/13/EC (VOC directive)

Provisions related to directives 82/501/EC(Seveso), 96/82/EC(Seveso II): No data available

15.2. Chemical safety assessment

No

#### **SECTION 16: Other information**

Full text of phrases referred to in Section 3:

H318 Causes serious eye damage.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1

This safety data sheet has been completely updated in compliance to Regulation 2015/830. This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

**CCNL** - Appendix 1

Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This Safety Data Sheet cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).



IMDG: INCI: KSt:	International Maritime Code for Dangerous Goods. International Nomenclature of Cosmetic Ingredients. Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods
	by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.