

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

- 1.1. Product identifier
  - Mixture identification: Trade name:

Ink cartridge, T2984

- Trade code: C13T298440
- 1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended use:

Ink for inkjet printing

1.3. Details of the supplier of the safety data sheet

Company:

EPSON EUROPE B.V. Azie building, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam Zuidoost The Netherlands Phone number: +31-20-314-5000 Competent person responsible for the safety data sheet: chemicals@epson-europe.com Date: 16/11/2015 Revision: 1.0 1.4. Emergency telephone number Phone number: +31-20-314-5000 Giftnotruf Berlin; +48 (0) 30 30686 790

## **SECTION 2: Hazards identification**

- 2.1. Classification of the substance or mixture
  - EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

- No other hazards
- 2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). Symbols:

None Hazard statements:

None

Precautionary statements:

None

Special Provisions:

EUH210 Safety data sheet available on request.

Contents

- 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one: May produce an allergic reaction.
- Special provisions according to Annex XVII of REACH and subsequent amendments: None
- 2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

## **SECTION 3: Composition/information on ingredients**

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## 3.1. Substances

## N.A.

## 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
10% ~ 12.5%	2-[2-(2-butoxyethoxy)et hoxy]ethanol; TEGBE; triethylene glycol monobutyl ether	Index 603-183-00-0 number: CAS: 143-22-6 EC: 205-592-6 REACH No.: 01-21194751 07-38	• 3.3/1 Eye Dam. 1 H318
< 0.05%	1,2-benzisothiazol-3(2 H)-one; 1,2-benzisothiazolin-3- one	Index 613-088-00-6 number: CAS: 2634-33-5 EC: 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 Do not inhale explosion and combustion gases. Burning produces heavy smoke.
- 5.3. Advice for firefighters
  - Use suitable breathing apparatus .

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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

No occupational exposure limit available

**DNEL Exposure Limit Values** 

N.A.

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

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.

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Respiratory protection: Not needed for normal use. Thermal Hazards: None Environmental exposure controls: None Appropriate engineering controls: None

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

-		
d chemical properti	es	
Yellow Liquid		
Slightly		
N.A.		
9.0 ~ 10.0	at 20°C	
N.A.		
range: N.A.		
N.A.		
plosive limits:	N.A.	
N.A.		
> 100 °C		
N.A.		
N.A.		
1.060		
Complete		
N.A.		
Partition coefficient (n-octanol/water): N.A.		
N.A.		
N.A.		
< 5 mPa⋅s		
N.A.		
N.A.		
N.A.		
N.A.		
N.A.		
	Slightly N.A. 9.0 ~ 10.0 N.A. range: N.A. N.A. plosive limits: N.A. > 100 °C N.A. N.A. 1.060 Complete N.A. water): N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A.	

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

- 10.1. ReactivityStable under normal conditions10.2. 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 None in particular.
- 10.6. Hazardous decomposition products None.

## **SECTION 11: Toxicological information**

11.1. Information on toxicological effects Toxicological information of the mixture:

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N.A.

Toxicological information of the main substances found in the mixture:

Glycerols

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: Skin - 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 453/2010/EC listed below must be considered as N.A.:

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. N.A.

- 12.2. Persistence and degradability
  - N.A.
- 12.3. Bioaccumulative potential
  - N.A.
- 12.4. Mobility in soil
  - N.A.
- 12.5. Results of PBT and vPvB assessment vPvB Substances: None - PBT Substances: None

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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
  - N.A.
- 14.3. Transport hazard class(es)
  - N.A.
- 14.4. Packing group
- N.A.
- 14.5. Environmental hazards N.A.
- 14.6. Special precautions for user N.A.
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code N.A.

#### **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) n. 453/2010 (Annex II)

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):

N.A.

15.2. Chemical safety assessment

No

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## **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.

This safety data sheet has been completely updated in compliance to Regulation 453/2010/EU. 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.

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.	ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CLP:Classification, Labeling, Packaging.DNEL:Derived No Effect Level.EINECS:European Inventory of Existing Commercial Chemical Substances.GefStoffVO:Ordinance on Hazardous Substances, Germany.	CAS:	Chemical Abstracts Service (division of the American Chemical
EINECS:European Inventory of Existing Commercial Chemical Substances.GefStoffVO:Ordinance on Hazardous Substances, Germany.	CLP:	
GefStoffVO: Ordinance on Hazardous Substances, Germany.	DNEL:	Derived No Effect Level.
GefStoffVO: Ordinance on Hazardous Substances, Germany.	EINECS:	European Inventory of Existing Commercial Chemical Substances.
	GefStoffVO:	
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.	GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.	IATA:	International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).	IATA-DGR:	
ICAO: International Civil Áviation Organization.	ICAO:	
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).	ICAO-TI:	, , ,
IMDG: International Maritime Code for Dangerous Goods.	IMDG:	
INCI: International Nomenclature of Cosmetic Ingredients.	INCI:	
KSt: Explosion coefficient.	KSt:	Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.	LC50:	Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.	LD50:	
LTE: Long-term exposure.	LTE:	Long-term exposure.
PNEC: Predicted No Effect Concentration.	PNEC:	Predicted No Effect Concentration.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.	RID:	
STE: Short-term exposure.	STE:	Short-term exposure.
STEL: Short Term Exposure limit.	STEL:	Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.	STOT:	Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.	TLV:	Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).	TWATLV:	
WGK: German Water Hazard Class.	WGK:	

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