

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

- 1.1. Product identifier
 - Mixture identification:
 - Trade name: Ink Cartridge, Magenta/Light Magenta T488
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
- 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 Neth	herlands	
	Phone number: +31-20-314-5000		
Competent person	responsible for the	e safety data sheet:	
	chemicals@epson	n-europe.com	
Date:	02/02	2/2017	
Revision:	1.0		
1.4. Emergency telephon	e number		
Phone number:	+31-2	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). Hazard pictograms:

None

- Hazard statements:
 - None

Precautionary statements:

- None
- Special Provisions:

EUH210 Safety data sheet available on request.

EUH208 Contains 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

- 3.1. Substances
- No
- 3.2. Mixtures

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

<Magenta ink>



Qty	Name	Ident. Numb	er	Classification
50% ~ 65%	Water	CAS: EC:	7732-18-5 231-791-2	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
15% ~ 20%	Glycerol	CAS: EC:	56-81-5 200-289-5	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
7% ~ 10%	ethanediol; ethylene glycol	Index number: CAS: EC:	603-027-00-1 107-21-1 203-473-3	1.1/4/Oral Acute Tox. 4 H302
5% ~ 7%	2-[2-(2-butoxyethoxy)et hoxy]ethanol; TEGBE; triethylene glycol monobutyl ether	Index number: CAS: EC: REACH No.:	603-183-00-0 143-22-6 205-592-6 01-21194751 07-38	� 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	 3.1/4/Oral Acute Tox. 4 H302 3.2/2 Skin Irrit. 2 H315 3.3/1 Eye Dam. 1 H318 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317 4.1/A1 Aquatic Acute 1 H400

<Light magenta ink>

Qty	Name	Ident. Numb	er	Classification
50% ~	Water	CAS:	7732-18-5	The product is not classified as
65%		EC:	231-791-2	dangerous according to
				Regulation EC 1272/2008 (CLP).
15% ~	Glycerol	CAS:	56-81-5	The product is not classified as
20%		EC:	200-289-5	dangerous according to
				Regulation EC 1272/2008 (CLP).
10% ~	ethanediol; ethylene	Index	603-027-00-1	3.1/4/Oral Acute Tox. 4 H302
12.5%	glycol	number:		• 3.1/4/Oral Acute 10X. 4 11302
		CAS:	107-21-1	
		EC:	203-473-3	
5% ~ 7%	2-[2-(2-butoxyethoxy)et	Index	603-183-00-0	较 3.3/1 Eye Dam. 1 H318
	hoxy]ethanol;	number:		
	TEGBE; triethylene	CAS:	143-22-6	
	glycol monobutyl ether	EC:	205-592-6	
		REACH No.:	01-21194751	
			07-38	
3% ~ 5%	2,2' -oxybisethanol;	Index	603-140-00-6	1.1/4/Oral Acute Tox. 4 H302
	diethylene glycol	number:		
		CAS:	111-46-6	
		EC:	203-872-2	
0.5% ~	Triethanol amine	CAS:	102-71-6	The product is not classified as
1%		EC:	203-049-8	dangerous according to



				Regulation EC 1272/2008 (CLP).
< 0.05%	1,2-benzisothiazol-3(2 H)-one:	Index number:		3.1/4/Oral Acute Tox. 4 H302
	1,2-benzisothiazolin-3-	CAS:	2634-33-5	3.2/2 Skin Irrit. 2 H315
	one	EC:	220-120-9	🥸 3.3/1 Eye Dam. 1 H318
				🌵 3.4.2/1-1A-1B Skin Sens.
				1,1A,1B H317
				4.1/A1 Aquatic Acute 1 H400

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 .

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
ethanediol; ethylene glycol - CAS: 107-21-1
OEL Type: EU - LTE(8h): 52 mg/m3, 20 ppm - STE: 104 mg/m3, 40 ppm - Notes:
Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for
Occupational Exposure [4] (for references see bibliography)
OEL Type: ACGIH - STE: C 100 mg/m3 - Notes: A4 (H) - URT and eye irr

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

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: Magenta Liquid / Light Magenta Liquid Odour: Slightly Odour threshold: No data available 8.9 ~ 10.3 at 20°C pH: (Magenta ink) 9~10.4 at 20°C (Light magenta ink) Melting point / freezing point: No data available 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 95 °C / 203 ° F (closed cup method, ASTM D 3278) Evaporation rate: No data available Vapour pressure: No data available Relative density: 1.068 at 20°C (Magenta ink) 1.067 at 20°C (Light magenta ink) Complete Solubility in water: 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 at 20 °C Viscosity: < 5 mPa⋅s 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 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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a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg - Source: OECD TG No.423

Test: LD50 - Route: Dermal - Species: Rat > 2000 mg/kg - Source: OECD TG No.402

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Non-irritant - Source: OECD TG No.404 c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Non-irritant - Source: OECD TG No.405 d) respiratory or skin sensitisation:

Test: Skin Sensitisation - Route: Maximisation Assay - Species: Guinea pig Non-sensitiser - Source: OECD TG No.406

e) germ cell mutagenicity:

Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli Negative - Source: OECD TG No.471

f) carcinogenicity:

Does not contain carcinogens (Ref. 1)

g) reproductive toxicity:

Does not contain reproductive toxicity and developmental toxic substances (Ref. 2)

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.

ethanediol; ethylene glycol - CAS: 107-21-1

a) acute toxicity:

Test: LDLo - Route: Oral - Species: Human = 398 mg/kg - Source:

Sudebno-Meditsinskaya Ekspertiza. Forensic Medical Examination. Vol. 26(2), Pg. 48, 1983.

Test: LDLo - Route: Oral - Species: Human = 786 mg/kg - Source: European Journal of Toxicology and Environmental Hygiene. Vol. 9, Pg. 373, 1976.

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,

2,2' -oxybisethanol; diethylene glycol - CAS: 111-46-6

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Mild irritant - Source: SPL 1307/345 e) germ cell mutagenicity:

Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli Negative

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.

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 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:

H302 Harmful if swallowed.

H318 Causes serious eye damage.

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 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



Ref. 1 ·IARC Monographs on the Evaluation Carcinogenic Risks to Humans (IARC: International Agency for Research on Cancer) Journal of Occupational Health (JOH) (Japan Society of Occupational Health (JSOH)) •TLVs and BEIs (ACGIH: American Conference of Governmental Industrial Hygienists) IRIS Carcinogenic Assessment (IRIS: Integrated Risk Information System of US EPA) National Toxicology Program (NTP) Report on Carcinogens Annex VI of REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 ·MAK und BAT Werte Liste (DFG: German Research Foundation) ·TRGS 905, Verzeichnis krebserzeugender, keimzell mutagener oder reproduktionstoxischer Stoffe (AGS: Committee on Hazardous Substances, Germany) Annex VI of REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT Ref. 2 AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 •TRGS 905, Verzeichnis krebserzeugender, keimzell mutagener oder

reproduktionstoxischer Stoffe (AGS: Committee on Hazardous Substances, Germany) 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 guality.

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.

European Agreement concerning the International Carriage of Dangerous Goods by Road.
Chemical Abstracts Service (division of the American Chemical Society).
Classification, Labeling, Packaging.
Derived No Effect Level.
European Inventory of Existing Commercial Chemical Substances.
Ordinance on Hazardous Substances, Germany.
Globally Harmonized System of Classification and Labeling of Chemicals.
International Air Transport Association.
Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
International Civil Aviation Organization.
Technical Instructions by the "International Civil Aviation Organization" (ICAO).
International Maritime Code for Dangerous Goods.
International Nomenclature of Cosmetic Ingredients.
Explosion coefficient.
Lethal concentration, for 50 percent of test population.
Lethal dose, for 50 percent of test population.
Long-term exposure.
Predicted No Effect Concentration.
Regulation Concerning the International Transport of Dangerous Goods by Rail.
Short-term exposure.
Short Term Exposure limit.
Specific Target Organ Toxicity.
Threshold Limiting Value.



TWATLV:Threshold Limit Value for the Time Weighted Average 8 hour day.
(ACGIH Standard).WGK:German Water Hazard Class.