

SECTION 1: Identification of 1.1. Product identifier				5
Mixture identification Trade name:	: Ink Cartrido	je, Magenta	T513	
		jo, magorita	1010	
1.2. Relevant identified use Recommended use:		nixture and use	es advised against	
	nk for inkjet printing			
1.3. Details of the supplier of Company:	of the safety data shee	t		
	PSON EUROPE B.V.			
Z	zie building, Atlas Arer uidoost The Netherlan	ds		sterdam
	hone number:		-314-5000	
	esponsible for the safet hemicals@epson-euro			
Date:	30/01/2017			
Revision:	1.0			
1.4. Emergency telephone	number			
Phone number:	+31-20-314			
Giftnotruf Berlin;	+48 (0) 30	0 30686 790		
SECTION 2: Hazards identifi	option			
2.1. Classification of the su				
EC regulation criteria				
	not classified as dang	erous accordin	g to Regulation EC	1272/2008
(CLP).	C C			
Adverse physicocher No other haza	mical, human health ar	d environment	al effects:	
2.2. Label elements	105			
	assified as dangerous	according to Re	egulation EC 1272/	2008 (CLP).
Hazard pictograms:	Ũ	0	•	
None				
Hazard statements:				
None Precautionary statem	nonte:			
None				
Special Provisions:				
EUH210 Safet	ty data sheet available			
	ains 1,2-benzisothiazol	-3(2H)-one; 1	,2-benzisothiazolir	n-3-one. May
produce an all				
Special provisions ac None	ccording to Annex XVII	of REACH and	subsequent amer	idments:
2.3. Other hazards				
	one - PBT Substances	: None		
Other Hazards:				
No other haza	rds			
		landa		
SECTION 3: Composition/inf 3.1. Substances	formation on ingred	ients		
No				
3.2. Mixtures				
	ents within the meaning	of the CLP reg	gulation and related	d classification:
T542 en				Manda
T513 en				Version 8.



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	1/4/Oral Acute Tox. 4 H302 3.1/4/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	<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.

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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 DNEL Exposure Limit Values

No data available

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**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**

Terror of the hybrid and offernious properties	
9.1. Information on basic physical and chemical prop	perties
Appearance and colour:	Magenta Liquid
Odour:	Slightly
Odour threshold:	No data available
pH:	8.9 ~ 10.3 at 20 °C
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
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
Viscosity:	< 5 mPa⋅s 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**

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- 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:
    - 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,

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

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- 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



		1			
Aquatic Act	ute 1	4.1/A1	Acute aquatic hazard, category 1		
			etent person who has received appropriate training.		
	graphic sourc				
			Data and Information Network - Joint Research Centre,		
		e European Com			
			S OF INDUSTRIAL MATERIALS - Eight Edition - Van		
	rand Reinold				
Ref. 1	IL - Appendix		Valuation Carainagania Bioka ta Humana (IABC)		
Rel. I			valuation Carcinogenic Risks to Humans (IARC: search on Cancer)		
			alth (JOH) (Japan Society of Occupational Health (JSOH))		
			nerican Conference of Governmental Industrial Hygienists)		
			nent (IRIS: Integrated Risk Information System of US EPA)		
<ul> <li>National Toxicology Program (NTP) Report on Carcinogens</li> <li>Annex VI of REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT</li> </ul>					
AND OF THE COUNCIL of 16 December 2008 on classification, labelling and					
	packaging of substances and mixtures, amending and repealing Directives 67/548/EEC				
			ding Regulation (EC) No 1907/2006		
			(DFG: German Research Foundation)		
			bserzeugender, keimzell mutagener oder		
			e (AGS: Committee on Hazardous Substances, Germany)		
Ref. 2	•Annex VI o	of REGULATION	(EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT		
	AND OF TH	HE COUNCIL of '	16 December 2008 on classification, labelling and		
	packaging of	of substances an	d mixtures, amending and repealing Directives 67/548/EEC		
			ding Regulation (EC) No 1907/2006		
			bserzeugender, keimzell mutagener oder		
	reproduktio	nstoxischer Stoff	e (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 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:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.



LD50: LTE:	Lethal dose, for 50 percent of test population. 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.