

SECTION 1: Identification of 1.1. Product identifier	the substance/mixture and of the company/undertaking
Mixture identification	
Trade name:	Ink, C13T00P140
1.2. Relevant identified use	s of the substance or mixture and uses advised against
Recommended use:	
Ir	ık for inkjet printing
1.3. Details of the supplier Company:	of the safety data sheet
	PSON EUROPE B.V.
	zie building, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam
	uidoost The Netherlands
Р	hone number: +31-20-314-5000
	esponsible for the safety data sheet:
	hemicals@epson-europe.com
Date:	06/07/2018
Revision:	1.0
1.4. Emergency telephone	
Phone number:	+31-20-314-5000
United Kingdom;	01952 607111 Monday to Friday 9am to 5:30pm.
	Emergency Action: In the event of a medical enquiry involving
	this product, please contact your doctor or local hospital
	accident and emergency department.
Ireland;	+353 (01) 809 2566 or +353 (01) 809 2166
Malta;	2545 0000 or 21224071
SECTION 2: Hazards identified	cation
2.1. Classification of the su	
EC regulation criteria	
The product is	not classified as dangerous according to Regulation EC 1272/2008
(CLP).	migal human health and an viranmental official
No other haza	mical, human health and environmental effects:
2.2. Label elements	us
	assified as dangerous according to Regulation EC 1272/2008 (CLP).
Hazard pictograms:	assined as daligerous according to Regulation EC 1272/2000 (CEP).
None	
Hazard statements:	
None	
Precautionary staten	ients:
None	
Special Provisions:	
•	y data sheet available on request.
	and a sheet available of request.

EUH208 Contains 2,4,7,9-tetramethyldec-5-yne-4,7-diol. May produce an allergic reaction.

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

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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:

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).
10% ~ 12.5%	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	3.3/1 Eye Dam. 1 H318
10% ~ 12.5%	Glycerol	CAS: EC:	56-81-5 200-289-5	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
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).
0.1% ~ 0.25%	2,4,7,9-tetramethyldec- 5-yne-4,7-diol	CAS: EC:	126-86-3 204-809-1	 3.3/1 Eye Dam. 1 H318 3.4.2/1B Skin Sens. 1B H317 4.1/C3 Aquatic Chronic 3 H412
< 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

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

Nono

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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.
 - Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

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

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Glycerol - CAS: 56-81-5 - OEL Type: OSHA - TWA: 5 mg/m3 - Notes: Respirable dust - OEL Type: OSHA - TWA: 15 mg/m3 - Notes: Total dust Triethanol amine - CAS: 102-71-6 - OEL Type: ACGIH - TWA(8h): 5 mg/m3 **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 2,4,7,9-tetramethyldec-5-yne-4,7-diol - CAS: 126-86-3 Target: Fresh Water - Value: 0.04 mg/l Target: Marine water - Value: 0.004 mg/l Target: Freshwater sediments - Value: 0.32 mg/kg Target: Marine water sediments - Value: 0.032 mg/kg 8.2. Exposure controls 8.2.1. Appropriate engineering controls: None 8.2.2. Individual protection measures, such as personal protective equipment 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 8.2.3. Environmental exposure controls: None **SECTION 9: Physical and chemical properties** 9.1.

. Information on basic physical and chemical prop	erties
Appearance and colour:	Black Liquid
Odour:	Slightly
Odour threshold:	No data available
pH:	7.4 ~ 8.4 at 20 ℃
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:	> 100 ℃ / 212 °F
Evaporation rate:	No data available
Vapour pressure:	No data available
Relative density:	No data available
Solubility in oil:	No data available
Partition coefficient (n-octanol/water):	No data available



Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidizing properties: 9.2. Other information Miscibility: Fat Solubility: Conductivity:	No data available No data available < 5 mPa·s at 20 °C No data available No data available No data available No data available No data available
SECTION 10: Stability and reactivity 10.1. Reactivity 10.2. Chemical stability 10.3. Possibility of hazardous reactions 10.4. Conditions to avoid 10.5. Incompatible materials 10.6. Hazardous decomposition products	Stable under normal conditions Stable under normal conditions None Stable under normal conditions. None in particular. None.
CAS: 143-22-6 a) acute toxicity: Test: LD50 - Route: Derri Industrial Hygiene Assoc Test: LD50 - Route: Oral Substances Report. Vol. Glycerol - CAS: 56-81-5 a) acute toxicity: Test: LD50 - Route: Oral of Industrial Hygiene and Test: LDLo - Route: Oral of Drugs and Chemicals, 1969Vol, Pg. 288, 196 Triethanol amine - CAS: 102-7 a) acute toxicity: Test: LD50 - Route: Oral "Toxicometric Parameter Izmerov, N.F., et al., Mos Pg. 114, 1982. Test: LD50 - Route: Oral Reports of the Research 36(1-4), Pg. 10, 1989. 2,4,7,9-tetramethyldec-5-yne-4 a) acute toxicity:	Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli Negative Does not contain carcinogens (Ref. 1) Does not contain reproductive toxicity and developmental toxic substances (Ref. 2) substances found in the product: hanol; TEGBE; triethylene glycol monobutyl ether - mal - Species: Rabbit = 3.54 ml/kg - Source: American ciation Journal. Vol. 23, Pg. 95, 1962. I - Species: Rat = 5300 mg/kg - Source: Office of Toxic OTS, I - Species: Guinea pig = 7750 mg/kg - Source: Journal d Toxicology. Vol. 23, Pg. 259, 1941 I - Species: Human = 1428 mg/kg - Source: "Toxicology ," Deichmann, W.B., New York, Academic Press, Inc., 9. 1-6 I - Species: Guinea pig = 2200 mg/kg - Source: rs of Industrial Toxic Chemicals Under Single Exposure," scow, Centre of International Projects, GKNT, 1982Vol, I - Species: Mouse = 5846 mg/kg - Source: Science Institutes, Tohoku University, Series C: Medicine. Vol.

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- Test: Skin Irritant Species: Rabbit Mild irritant c) serious eye damage/irritation:
 - Test: Eye Irritant Species: Rabbit Highly irritating
- d) respiratory or skin sensitisation:
 - Test: Skin Sensitisation Route: LLNA Species: Mouse Sensitiser
- e) germ cell mutagenicity:
 - Test: Mutagenesis Species: Salmonella Typhimurium Negative

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;
- i) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. 2,4,7,9-tetramethyldec-5-yne-4,7-diol - CAS: 126-86-3

- a) Aquatic acute toxicity:
 - Endpoint: LC50 Species: Fish = 36 mg/l Duration h: 96
 - Endpoint: EC50 Species: Daphnia = 88 mg/l Duration h: 48
 - Endpoint: EC50 Species: Algae = 15 mg/l Duration h: 72
- c) Bacteria toxicity:

- 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)
- 14.4. Packing group

- No data available 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

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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

SECTION 16: Other information

Full text of phrases referred to in Section 3:

- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- 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
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

No

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

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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 (USA)
 ·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)
- Ref. 2 •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 •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 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
CAS:	by Road. 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:	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.