

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

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

Singlepack Cyan 18XL Claria Home Ink

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 EU	ROPE B.V.		
Azie building	Azie building, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam		
Zuidoost Th	Zuidoost The Netherlands		
Phone numl	ber:	+31-20-314-5000	
Competent person responsible	for the safety data s	sheet:	
chemicals@	epson-europe.com		
Date:	11/05/2017		
Revision:	1.0		
1.4. Emergency telephone number			
Phone number:	+31-20-314-5000		
Giftnotruf Berlin;	+48 (0) 30 30686	5 790	

### **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 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

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

- 3.1. Substances
  - No
- 3.2. Mixtures

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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).
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
1% ~ 3%	E-C104	EC: REACH No.:	700-815-8 01-21199296 31-38	4.1/C3 Aquatic Chronic 3 H412
1% ~ 3%	Lithium naphthalene-2-carboxy late	CAS: EC:	674347-28-5 700-040-5	<ul> <li>3.1/4/Oral Acute Tox. 4 H302</li> <li>3.3/1 Eye Dam. 1 H318</li> </ul>
0.1% ~ 0.25%	2,4,7,9-tetramethyldec- 5-yne-4,7-diol	CAS: EC:	126-86-3 204-809-1	<ul> <li>3.3/1 Eye Dam. 1 H318</li> <li>3.4.2/1B Skin Sens. 1B H317</li> <li>4.1/C3 Aquatic Chronic 3 H412</li> </ul>
0.1% ~ 0.25%	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>

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

### **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:

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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
    - OEL Type: OSHA LTE: 15 mg/m3

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**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 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: Cvan Liquid

	Cyan Eigaid
Odour:	Slightly
Odour threshold:	No data available
pH:	8 ~ 9 at 20 °C
Melting point / freezing point:	-14.3 °C
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:	1.070 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

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Oxidizing properties:

- 9.2. Other information
  - Miscibility: Fat Solubility:
    - Conductivity:

## **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:
    - e) germ cell mutagenicity:

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

- 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.

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,

2,4,7,9-tetramethyldec-5-yne-4,7-diol - CAS: 126-86-3

a) acute toxicity:

Test: LD50 - Route: Dermal - Species: Rat > 2000 mg/kg

b) skin corrosion/irritation:

- Test: Skin Irritant Species: Rabbit Mild irritant
- c) serious eye damage/irritation:
- Test: Eye Irritant Species: Rabbit Highly irritating
- d) respiratory or skin sensitisation:

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No data available No data available No data available



Test: Skin Sensitisation - Route: LLNA - Species: Mouse Sensitiser e) germ cell mutagenicity:

Test: Mutagenesis - Species: Salmonella Typhimurium 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. 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:

Endpoint: EC50 - Species: activated sludge = mg/l

- 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

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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.

H412 Harmful to aquatic life with long lasting effects.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H315 Causes skin irritation.

H400 Very toxic to aquatic life.

Ha	izard class and	Code	Description
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hazard category		
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

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

- ·IARC Monographs on the Evaluation Carcinogenic Risks to Humans (IARC: Ref. 1 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
- 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 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: IATA-DGR:	International Air Transport Association. Dangerous Goods Regulation by the "International Air Transport



ICAO: ICAO-TI:	Association" (IATA). International Civil Aviation Organization. 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.