

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Mixture identification:	
Trade name: Ink, T45N6	
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.eu	
Date: 12/12/2022	
Revision: 6.0	
1.4. Emergency telephone number	
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 inv this product, please contact your doctor or local hospita accident and emergency department.	
Ireland; +353 (01) 809 2566 or +353 (01) 809 2166	
Malta; 2545 0000 or 21224071	

### **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.

Special provisions according to Annex XVII of REACH and subsequent amendments: None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%Other Hazards:

No other hazards

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

3.1. Substances

CLP, T45N6\_en Page n. 1 of 8



#### No 3.2. Mixtures

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

Qty	Name	Ident. Numb	er	Classification
65% ~ 80%	1-ethoxy-2-(2-methoxy ethoxy)ethane	CAS: EC: REACH No.:	1002-67-1 213-690-5 01-21202835 43-53	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
10% ~ 12.5%	gamma-Butyrolactone	CAS: EC: REACH No.:	96-48-0 202-509-5 01-21194718 39-21	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
5% ~ 7%	(2-Methoxymethyletho xy)propanol	CAS: EC: REACH No.:	34590-94-8 252-104-2 01-21194500 11-60	Substance with a Union workplace exposure limit.

### **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 spray, dry chemical, carbon dioxide or alcohol-resistant foam. 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**

CLP, T45N6\_en Page n. 2 of 8



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. See also section 8 for recommended protective equipment.
  - Advice on general occupational hygiene:
  - Do not eat or drink while working.
- 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
  - (2-Methoxymethylethoxy)propanol CAS: 34590-94-8
    - OEL Type: EU TWA(8h): 308 mg/m3, 50 ppm
    - OEL Type: ACGIH TWA(8h): 100 ppm STEL: 150 ppm
  - **DNEL Exposure Limit Values**
  - No data available
  - PNEC Exposure Limit Values
    - No data available
- 8.2. Exposure controls
  - 8.2.1. Appropriate engineering controls:
    - Provide a good standard of general ventilation. Use powered wall- or

window-mounted fans to supply fresh air - five to ten air changes per hour, with a through draught.

- 8.2.2. Individual protection measures, such as personal protective equipment
  - Eye protection:

Wear eye protection, if there is a risk of material splashing under work.

Protection for skin:

Use chemical protective clothes if there is a risk of splushing the material under work.

Protection for hands:

Use chemical protective gloves where there is a risk of skin contact under working, e.g. single-use NBR (nitrile rubber) gloves 0.2 mm thick are acceptable. Do not exceed the breackthrough time or reuse.



Respiratory protection: Use personal protective equipment as required. Thermal Hazards: None 8.2.3. Environmental exposure controls: None Appropriate engineering controls: None

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

9.1. Inf	formation on basic physical and chemical prope	rties		
I	Physical state:	Liquid		
(	Colour:	Light magenta		
(	Odour:	Slightly		
1	Melting point / freezing point:	No data available		
	Boiling point or initial boiling point and boiling ra	inge:		
		No data available		
I	Lower and upper explosion limit:	No data available		
	Flash point:	62.5 °C / 145 ° F	-	(closed cup
	•	method, ASTM D	3278)	· ·
	Auto-ignition temperature:	No data available	,	
	Decomposition temperature:	No data available		
	pH:	Not Relevant		
ĺ	Kinematic viscosity:	No data available		
	Solubility in water:	Soluble		
	Vapour pressure:	No data available		
	Relative vapour density:	No data available		
	Particle characteristics:	Not Relevant		
	her information	<b>FD</b>		
	Viscosity:	< 5 mPa⋅s a	t 20 °C	
SECTION 1	0: Stability and reactivity			
	Reactivity			
	Stable under normal conditions			
	Chemical stability			
	Stable under normal conditions			
	Possibility of hazardous reactions			
	None			
	Conditions to avoid			
	Stable under normal conditions.			
	ncompatible materials			
	None in particular.			
	lazardous decomposition products			
	None.			
	1: Toxicological information			
	nformation on hazard classes as defined in Reg	ulation (EC) No 12	272/2008	
-	Toxicological information of the product:			

e) germ cell mutagenicity:

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

- f) carcinogenicity:
  - Does not contain carcinogens (Ref. 1)

CLP, T45N6\_en Page n. 4 of 8 Version 8.2 Revision 6.0



g) reproductive toxicity:

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

Toxicological information of the main substances found in the product:

1-ethoxy-2-(2-methoxyethoxy)ethane - CAS: 1002-67-1

a) acute toxicity:

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

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

- b) skin corrosion/irritation:
  - Test: Skin Irritant Route: Dermal Species: Rabbit Negative
- c) serious eye damage/irritation:
- Test: Eye Irritant Species: Rabbit Negative
- e) germ cell mutagenicity:
- Test: Mutagenesis Species: Salmonella Typhimurium Negative
- g) reproductive toxicity:
  - Test: Reproductive Toxicity Route: Oral Species: Rat Negative

If not differently specified, the information required in Regulation (EU)2020/878 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.

11.2. Information on other hazards
 Endocrine disrupting properties:
 No endocrine disruptor substances present in concentration >= 0.1%

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. Toxicological information of the product:

No data available

Toxicological information of the main substances found in the product:

- 1-ethoxy-2-(2-methoxyethoxy)ethane CAS: 1002-67-1
  - a) Aquatic acute toxicity:
    - Endpoint: EC50 Species: Algae > 89.5 mg/l Duration h: 96 Endpoint: LC50 - Species: Daphnia > 93.6 mg/l - Duration h: 48 Endpoint: LC50 - Species: Fish > 90.8 mg/l - Duration h: 96
- 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. Endocrine disrupting properties No endocrine disruptor substances present in concentration >= 0.1%

CLP, T45N6\_en Page n. 5 of 8



12.7. 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 or ID 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. Maritime transport in bulk according to IMO instruments 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) n. 2020/878 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) Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 CLP) Regulation (EU) n. 2018/1480 (ATP 13 CLP) Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation (EU) n. 2020/217 (ATP 14 CLP) Regulation (EU) n. 2020/1182 (ATP 15 CLP) Regulation (EU) n. 2021/643 (ATP 16 CLP) Regulation (EC) n. 2021/849 (ATP 17 CLP) Regulation (EC) n. 2022/692 (ATP 18 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:

CLP, T45N6\_en Page n. 6 of 8 Version 8.2 Revision 6.0



No restriction. Where applicable, refer to the following regulatory provisions : Directive 2012/18/EU (Seveso III) Regulation (EC) nr 648/2004 (detergents). Dir. 2004/42/EC (VOC directive) Provisions related to directive EU 2012/18 (Seveso III): Seveso III category according to Annex 1, part 1 None

15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out for the mixture.

### **SECTION 16: Other information**

This safety data sheet has been completely updated in compliance to Regulation 2020/878.

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

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 by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical
	Society).
CLP:	Classification, Labeling, Packaging.

CLP, T45N6\_en Page n. 7 of 8 Version 8.2 Revision 6.0



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.
Predicted No Effect Concentration.
Regulation Concerning the International Transport of Dangerous Goods by Rail.
Short Term Exposure limit.
Specific Target Organ Toxicity.
Threshold Limiting Value.
Time-weighted average
German Water Hazard Class.