

SECTION 1: Identification of the sub 1.1. Product identifier Mixture identification:		and of the company/undertaking		
Trade name:	Ink, T45N7			
1.2. Relevant identified uses of the s Recommended use:		ire and uses advised against		
	jet printing			
1.3. Details of the supplier of the sa	fety data sheet			
Company:				
	UROPE B.V.			
		loogoorddreef 5,1101 BA Amsterdam		
Zuidoost The Netherlands				
Phone nu		+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:	+31-20-314-500	00		
United Kingdom;	01952 607111	Monday to Friday 9am to 5:30pm.		
Ireland;	this product, ple accident and en	ion: In the event of a medical enquiry involving ease contact your doctor or local hospital nergency department. 2566 or +353 (01) 809 2166		
Malta;	2545 0000 or 2			
	2010 0000 01 2			

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

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No 3.2. Mixtures

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

Qty	Name	Ident. Numb	er	Classification
65% ~	1-ethoxy-2-(2-methoxy	CAS:	1002-67-1	The product is not classified as
80%	ethoxy)ethane	EC:	213-690-5	dangerous according to
		REACH No.:	01-21202835 43-53	Regulation EC 1272/2008 (CLP).
10% ~	gamma-Butyrolactone	CAS:	96-48-0	The product is not classified as
12.5%		EC:	202-509-5	dangerous according to
		REACH No.:	01-21194718	Regulation EC 1272/2008 (CLP).
			39-21	
5% ~ 7%	(2-Methoxymethyletho	CAS:	34590-94-8	Substance with a Union workplace
	xy)propanol	EC:	252-104-2	exposure limit.
		REACH No.:	01-21194500	
			11-60	
0.5% ~	Carbon black	CAS:	1333-86-4	The product is not classified as
1%		EC:	215-609-9	dangerous according to
				Regulation EC 1272/2008 (CLP).

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.

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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. 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
 - Carbon black CAS: 1333-86-4
 - OEL Type: ACGIH TWA(8h): 3 mg/m3
 - OEL Type: OSHA TWA: 3.5 mg/m3
 - OEL Type: JSOH TWA: 1 mg/m3 Notes: as Class 2 Dusts (Respirable dust)
 - OEL Type: JSOH TWA: 4 mg/m3 Notes: as Class 2 Dusts (Total dust)
 - Notes: as total dust
 - 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:

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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

now 9: Physical and chemical properties		
9.1. Information on basic physical and chemical	properties	
Physical state:	Liquid	
Colour:	Black	
Odour:	Slightly	
Melting point / freezing point:	No data available	
Boiling point or initial boiling point and bo	iling range:	
	No data available	
Lower and upper explosion limit:	No data available	
Flash point:	62.5 °C / 145 ° F	(closed cup
	method, ASTM D 3278	3)
Auto-ignition temperature:	No data available	,
Decomposition temperature:	No data available	
pH:	Not Relevant	
Kinematic viscosity:	No data available	
Solubility in water:	Soluble	
Vapour pressure:	No data available	
Relative vapour density:	No data available	
Particle characteristics:	Not Relevant	
9.2. Other information		
Viscosity:	< 5 mPa⋅s at 20 °	°C

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 hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological information of the product:
 - e) germ cell mutagenicity:
 - Test: Mutagenesis Species: Salmonella Typhimurium and Escherichia coli Negative
 - f) carcinogenicity:
 - Components do not come under carcinogens (Ref. 1), except for Carbon black 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 a) reproductive toxicity:
 - Test: Reproductive Toxicity Route: Oral Species: Rat Negative
 - Carbon black CAS: 1333-86-4
 - a) acute toxicity:

Test: LD50 - Route: Dermal - Species: Rabbit > 3 g/kg - Source: Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 15 Test: LD50 - Route: Oral - Species: Rat > 15400 mg/kg - Source: Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 15

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

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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%
- 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 4 CLP) Regulation (EU) n. 605/2014 (ATP 5 CLP) Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/1179 (ATP 8 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: **Restriction 75** 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

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))
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.
DNEL:	Derived No Effect Level.
EINECS: GefStoffVO:	European Inventory of Existing Commercial Chemical Substances. 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.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.