

SECTION 1: Identification 1.1. Product identifier	of the substance/mixture	e and of the company/undertaking
Mixture identificat	ion:	
Trade name:	Ink Cartridge	T45NA
Trade code:	C13T45NA00	
1.2. Relevant identified un Recommended un	se:	ture and uses advised against
1.2 Details of the suppli	Ink for inkjet printing	
Company:	er of the safety data sheet	
Company.	EPSON EUROPE B.V.	
	Azie building, Atlas ArenA, I	Hoogoorddreef 5,1101 BA Amsterdam
	Zuidoost The Netherlands	-
	Phone number:	+31-20-314-5000
Competent perso	n responsible for the safety da	ata sheet:
Data	chemicals@epson.eu	
Date: Revision:	27/09/2021 5.1	
1.4. Emergency telepho		
Phone number:	+31-20-314-50	000
SECTION 2: Hazards iden		
2.1. Classification of the		
	eria 1272/2008 (CLP) t is not classified as dangerou	us according to Regulation EC 1272/2008
(CLP).	t is not classified as dangered	
Adverse physicoc	hemical, human health and e	environmental effects:
No other ha	azards	
2.2. Label elements	t aloogified as departure as	arding to Desculation EC (1979/2000 (CLD)
Hazard pictogram		ording to Regulation EC 1272/2008 (CLP).
None Hazard statement		
None		
Precautionary sta	tements:	
None		
Special Provision	s:	
		e droplets may be formed when sprayed. Do not
breathe spi		<u> </u>
	afety data sheet available on I	
None	s according to Annex AVII of r	REACH and subsequent amendments:
2.3. Other hazards		of the second second section of the second
Other Hazards:	endocrine disruptor substanc	ces present in concentration >= 0.1%
No other hazards.	azards	
SECTION 3: Composition/	information on ingredien	nts
3.1. Substances		
No 2.2 Mixturos		
3.2. Mixtures Hazardous compo	ments within the meaning of t	the CLP regulation and related classification:
	then to wait are meaning of	

C13T45NA00_en Page n. 1 of 8



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).
12.5% ~ 15%	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm]	Index number: CAS: EC:	022-006-00-2 13463-67-7 236-675-5	♦ 3.6/2 Carc. 2 H351
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.
1% ~ 3%	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).

This mixture contains >= 1% titanium dioxide (CAS 13463-67-7). The Annex VI classification of titanium dioxide does not apply to this mixture according to its Note 10.

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.

C13T45NA00_en Page n. 2 of 8



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

- titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 μm] CAS: 13463-67-7
 - OEL Type: ACGIH TWA(8h): 10 mg/m3
 - (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.

C13T45NA00_en Page n. 3 of 8



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

FILLIN 9. FILYSICAL AND CHEIM	cal properties			
9.1. Information on basic physic	cal and chemical prop	erties		
Physical state:		Liquid		
Colour:		White		
Odour:		Slightly		
Melting point / freezing p	oint:	No data availa	ble	
Boiling point or initial boil	ling point and boiling r	ange:		
	•••••••••••••••••••••••••••••••••••••••	No data availa	ble	
Lower and upper explosi	on limit:	No data availa	ble	
Flash point:		65 °C / 149 '	° F	(closed cup method,
		ASTM D 3278)	1	
Auto-ignition temperature	e:	No data availa	ble	
Decomposition temperat	ure:	No data availa	ble	
pH:		Not Relevant		
Kinematic viscosity:		No data availa	ble	
Solubility in water:		Soluble		
Vapour pressure:		No data availa	ble	
Relative vapour density:		No data availa	ble	
Particle characteristics:		Not Relevant		
9.2. Other information				
Viscosity:		< 5 mPa∙s	at 25	0°C
				•

SECTION 10: Stability and reactivity

- 10.1. ReactivityStable under normal conditions10.2. Chemical stabilityStable 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:

C13T45NA00_en Page n. 4 of 8



Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli Negative f) carcinogenicity:

Components do not come under carcinogens (Ref. 1), except for Titanium dioxide

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

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: Eich > 90.8 mg/l - Duration h: 96

- 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

C13T45NA00_en Page n. 5 of 8



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 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) 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:

C13T45NA00_en Page n. 6 of 8



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

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

SECTION 16: Other information

Full text of phrases referred to in Section 3: H351 Suspected of causing cancer if inhaled.

Hazard class and hazard category	Code	Description
Carc. 2	3.6/2	Carcinogenicity, Category 2

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

·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 (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) -Annex VI of REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT Ref. 2

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.

C13T45NA00_en Page n. 7 of 8



ADR: ATE: ATEmix:	European Agreement concerning the International Carriage of Dangerous Goods by Road. Acute Toxicity Estimate Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical
CLP: DNEL:	Society). Classification, Labeling, Packaging. 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 Áviation 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.