

SECTION 1: Identification 1.1. Product identifier Mixture identificat		xture and of	the company/unde	rtaking
Trade name:	Ink Cartr	dge, White,	T713A	
1.2. Relevant identified un Recommended un	e:	r mixture and u	ses advised against	
	Ink for inkjet printing			
1.3. Details of the suppli	er of the safety data sh	eet		
Company:				
	EPSON EUROPE B.\	<i>'</i> .		
	Azie building, Atlas A	enA, Hoogoord	dreef 5,1101 BA Ams	terdam
	Zuidoost The Netherla	ands		
	Phone number:	+31-2	20-314-5000	
Competent perso	responsible for the sa	fety data sheet:		
	chemicals@epson-eu			
Date:	26/05/20	•		
Revision:	1.0			
1.4. Emergency telepho				
Phone number:	+31-20-3	14-5000		
Giftnotruf Berlin;		30 30686 790		
Sittiotidi Defini,	140 (0)	00 00000 700		

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
 - EC regulation criteria 1272/2008 (CLP)
 - Warning, Skin Irrit. 2, Causes skin irritation.

Adverse physicochemical, human health and environmental effects: No other hazards

2.2. Label elements

Hazard pictograms:



Warning Hazard statements: H315 Causes skin irritation. Precautionary statements: P264 Wash hands thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water/... P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. Special Provisions: None Special provisions according to Annex XVII of REACH and subsequent amendments: None 2.3. Other hazards VPVB Substances: None - PBT Substances: None

vPvB Substances: None - PBT Substances: None Other Hazards: No other hazards



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
50% ~ 65%	Bis(2-ethoxyethyl) ether	CAS: EC: REACH No.:	112-36-7 203-963-7 01-21199699 46-13	1.2/2 Skin Irrit. 2 H315
20% ~ 25%	1-ethoxy-2-(2-methoxy ethoxy)ethane	CAS: EC:	1002-67-1 213-690-5	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
15% ~ 20%	Titanium dioxide	CAS: EC:	13463-67-7 236-675-5	substance with a Community workplace exposure limit

SECTION 4: First aid measures

- 4.1. Description of first aid measures
 - In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treatment:

None

SECTION 5: Firefighting measures

- 5.1. Extinguishing media
 - Suitable extinguishing media:
 - CO2 or Dry chemical fire extinguisher.
 - 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

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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

Titanium dioxide - CAS: 13463-67-7

- OEL Type: ACGIH LTE(8h): 10 mg/m3
- OEL Type: OSHA LTE: 15 mg/m3
- OEL Type: JSOH LTE: 0.3 mg/m3 Notes: nano perticle
- OEL Type: NIOSH STE: 5000 mg/m3
- **DNEL Exposure Limit Values**
 - Bis(2-ethoxyethyl) ether CAS: 112-36-7

Worker Industry: 5.96 mg/m3 - Exposure: Human Inhalation Worker Industry: 1.71 mg/kg/day - Exposure: Human Oral Worker Professional: 50.05 mg/m3 - Exposure: Human Inhalation - Free

Worker Professional: 50.05 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 3.43 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects



PNEC Exposure Limit Values Bis(2-ethoxyethyl) ether - CAS: 112-3 Target: Fresh Water - Value: 0 Target: Freshwater sediments Target: Marine water - Value: 0 Target: Marine water sediment).001 mg/l - Value: 0.007 mg/kg 0.0001397 mg/l ts - Value: 0.0006778 mg/kg	
Target: Air - Value: 0.0000011	05 mg/m3	
8.2. Exposure controls		
8.2.1. Appropriate engineering controls: None		
8.2.2. Individual protection measures, such	as personal protective equipment	
Eye protection:		
	yway, operate according good working practices.	
Protection for skin:		
Use clothing that provides com	prehensive protection to the skin, e.g. cotton,	
rubber, PVC or viton.		
Protection for hands:		
Use protective gloves that prov	vides comprehensive protection, e.g. P.V.C.,	
neoprene or rubber.		
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 p	roperties	
Appearance and colour:	White Liquid	
Odour:	Slightly	
Odour threshold:	No data available	
pH:	Not Relevant	
, 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:	73.7 °C / 165 ° F (closed cup method,
	ASTM D 3278)
Evaporation rate:	No data available
Vapour pressure:	No data available
Relative density:	No data available
Solubility in water:	Slightly soluble
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 25 °C
Explosive properties:	No data available
Oxidizing properties:	No data available
9.2. Other information	
Miscibility:	No data available
Fat Solubility:	No data available
Conductivity:	No data available



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:
 - 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 mixture:

Bis(2-ethoxyethyl) ether - CAS: 112-36-7

- a) acute toxicity:
 - Test: LD50 Route: Oral Species: Rat = 4970 mg/kg
- c) serious eye damage/irritation:
 - Test: Eye Irritant Species: Rabbit Non-irritant
- 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 Titanium dioxide - CAS: 13463-67-7
 - Titanium dioxide is classified as "possibly carcinogenic to human" (Group 2B). In animal chronic inhalation studies, the tumor formulation observed in only rats with animal chronic inhalation study are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, dose not result in inhalation of excessive dust. Epidemiological study to data have not revealed any evidence of the relation between exposure to titanium dioxide and diseases of the respiratory tract beyond general effects of dust.



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. Bis(2-ethoxyethyl) ether - CAS: 112-36-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 10000 mg/l - Duration h: 96

Endpoint: LC50 - Species: Daphnia = 6600 mg/l - Duration h: 96

- 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
- VPVB Substances: None PBT Substances: Nor 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) No data available
- 14.4. Packing group
 - No data available
- 14.5. Environmental hazards No data available
- 14.6. Special precautions for user

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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: **Restriction 3** 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: H315 Causes skin irritation.

Hazard class and hazard category	Code	Description
Skin Irrit. 2	3.2/2	Skin irritation, Category 2

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

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
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.
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:	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.
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.