

SECTION 1: Identification of the sub 1.1. Product identifier Mixture identification:	stance/mixture	e and of the	company/undertaking
Trade name:	Ink Cartridge,	Yellow,	T6874
1.2. Relevant identified uses of the s Recommended use:		ure and uses	advised against
Ink for inkje			
1.3. Details of the supplier of the safe	ety data sheet		
Company:			
EPSON EL	JROPE B.V.		
	•	Hoogoorddre	ef 5,1101 BA Amsterdam
Zuidoost Ti	he Netherlands		
Phone num	nber:	+31-20-3	314-5000
Competent person responsible	e for the safety da	ata sheet:	
chemicals	epson-europe.	com	
Date:	26/05/2017		
Revision:	1.0		
1.4. Emergency telephone number			
Phone number:	+31-20-314-50	00	
Giftnotruf Berlin;	+48 (0) 30 30	686 790	

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: 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. Number		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).	
10% ~ 12.5%	gamma-Butyrolactone	CAS: EC:	96-48-0 202-509-5	The product is not classified as 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:
 - 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:
 - Water spray, dry chemical, carbon dioxide or alcohol-resistant foam.

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.
 - 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 No occupational exposure limit available DNEL Exposure Limit Values Bis(2-ethoxyethyl) ether - CAS: 112-36-7 Worker Industry: 5.96 mg/m3 - Exr

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 - 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: 112-36-7

Target: Fresh Water - Value: 0.001 mg/l

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- Target: Freshwater sediments Value: 0.007 mg/kg
- Target: Marine water Value: 0.0001397 mg/l

Target: Marine water sediments - Value: 0.0006778 mg/kg

Target: Air - Value: 0.000001105 mg/m3

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:
 - 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 prop	perties
Appearance and colour:	Yellow 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:	76.2 °C
Evaporation rate:	No data available
Vapour pressure:	No data available
Relative density:	No data available
Solubility in water:	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:

g) reproductive toxicity:

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:

- 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

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
- 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
 - 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

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.