

SECTION 1: Identification of the sub 1.1. Product identifier Mixture identification:	stance/mixture	e and of the o	company/undertaking
Trade name:	Ink Cartridge,	Orange,	T6248/ICOR68
1.2. Relevant identified uses of the s Recommended use: Ink for inkje		ure and uses a	dvised against
1.3. Details of the supplier of the safe Company:			
EPSON EL	JROPE B.V.		
Azie buildir	ng, Atlas ArenA,	Hoogoorddreef	5,1101 BA Amsterdam
Zuidoost T	he Netherlands	-	
Phone nun	nber:	+31-20-31	4-5000
Competent person responsible	e for the safety da	ata sheet:	
	@epson-europe.c		
Date:	29/05/2017		
Revision:	1.0		
1.4. Emergency telephone number			
Phone number:	+31-20-314-50	000	
Giftnotruf Berlin;	+48 (0) 30 30	0686 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.



Danger, Repr. 1B, May damage fertility or the unborn child.

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

2.2. Label elements

Hazard pictograms:



Danger Hazard statements:

H315 Causes skin irritation.

H360 May damage fertility or the unborn child.

Precautionary statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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 soap and water.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with applicable regulations. Special Provisions:

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None Contents Bis(2-(2-methoxyethoxy)ethyl) ether Special provisions according to Annex XVII of REACH and subsequent amendments: None 2.3. Other hazards 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
15% ~ 20%	gamma-Butyrolactone	CAS: EC:	96-48-0 202-509-5	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
15% ~ 20%	Bis(2-(2-methoxyethox y)ethyl) ether	CAS: EC: REACH No.:	143-24-8 205-594-7 01-21199589 65-16	3.7/1B Repr. 1B H360

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:

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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

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No occupational exposure limit available	
DNEL Exposure Limit Values	
Bis(2-ethoxyethyl) ether - CAS: 112-36-7	
Worker Industry: 5.96 mg/m3 - Ex	
Worker Industry: 1.71 mg/kg/day -	
	3 - Exposure: Human Inhalation - Frequency:
Long Term, systemic effects	
	day - Exposure: Human Dermal - Frequency:
Long Term, systemic effects	C: 112 01 0
Bis(2-(2-methoxyethoxy)ethyl) ether - CA	
Long Term, systemic effects	Exposure: Human Inhalation - Frequency:
o • • ,	- Exposure: Human Dermal - Frequency: Long
Term, systemic effects	- Exposure. Human Dermai - Frequency. Long
PNEC Exposure Limit Values	
Bis(2-ethoxyethyl) ether - CAS: 112-36-7	,
Target: Fresh Water - Value: 0.007	
Target: Freshwater sediments - Va	
Target: Marine water - Value: 0.00	
Target: Marine water sediments -	
Target: Air - Value: 0.000001105 r	ng/m3
Bis(2-(2-methoxyethoxy)ethyl) ether - CA	AS: 143-24-8
Target: Fresh Water - Value: 32 m	
Target: Freshwater sediments - Va	
Target: Marine water - Value: 3.2	
Target: Marine water sediments -	
Target: Microorganisms in sewage	e treatments - Value: 500 mg/l
8.2. Exposure controls	
8.2.1. Appropriate engineering controls:	
	al ventilation. Use powered wall- or
through draught.	esh air - five to ten air changes per hour, with a
8.2.2. Individual protection measures, such as	personal protective equipment
Eye protection:	
	isk of material splashing under work.
Protection for skin:	isk of material oplashing under work.
	there is a risk of splushing the material under
work.	······································
Protection for hands:	
	nere there is a risk of skin contact under
working, e.g. single-use NBR (nitri	le 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 prope	
Appearance and colour:	Orange Liquid
Odour:	Slightly
Odour threshold:	No data available

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pH:
Melting point / freezing point:
Initial boiling point and boiling range:
Solid/gas flammability:
Upper/lower flammability or explosive limits:
· · ·
· · ·
Decomposition temperature:
Viscosity:
Explosive properties:
Oxidizing properties:
9.2. Other information
Miscibility:
Explosive properties: Oxidizing properties:

Not Relevant No data available 71 °C No data available No data available No data available Slightly soluble No data available No data available No data available No data available < 5 mPa·s No data available No data available No data available

No data available

No data available

Conductivity:

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:
 - 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
 - Bis(2-(2-methoxyethoxy)ethyl) ether CAS: 143-24-8
 - a) acute toxicity:
 - Test: LD50 Route: Oral Species: Rat = 3850 mg/kg

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b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Non-irritant

- c) serious eye damage/irritation:
 - Test: Eye Irritant Species: Rabbit Non-irritant
- e) germ cell mutagenicity:
 - Test: Mutagenesis Species: Salmonella Typhimurium and Escherichia coli Negative
- g) reproductive toxicity:
 - Test: Reproductive Toxicity Route: Oral Species: Rat reprotoxic category 3

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
 - Bis(2-(2-methoxyethoxy)ethyl) ether CAS: 143-24-8
 - a) Aquatic acute toxicity:
 - Endpoint: EC50 Species: Daphnia = 7467 mg/l Duration h: 48 Endpoint: ErC50 - Species: Algae = 8996 mg/l - Duration h: 72
- 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

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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. H360 May damage fertility or the unborn child.

Hazard class and hazard category	Code	Description
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Repr. 1B	3.7/1B	Reproductive toxicity, Category 1B

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

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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.

	ropean Agreement concerning the International Carriage of ngerous Goods by Road.
CAS: Che	emical Abstracts Service (division of the American Chemical ciety).
	issification, Labeling, Packaging.
DNEL: Der	rived No Effect Level.
	ropean Inventory of Existing Commercial Chemical Substances.
GefStoffVO: Ord	dinance on Hazardous Substances, Germany.
GHS: Glo	bally Harmonized System of Classification and Labeling of
Che	emicals.
	ernational Air Transport Association.
	ngerous Goods Regulation by the "International Air Transport sociation" (IATA).
ICAO: Inte	ernational Civil Áviation Organization.
	chnical Instructions by the "International Civil Aviation Organization" AO).
IMDG: Inte	ernational Maritime Code for Dangerous Goods.
INCI: Inte	ernational Nomenclature of Cosmetic Ingredients.
KSt: Exp	plosion coefficient.
LC50: Let	hal concentration, for 50 percent of test population.
LD50: Let	hal dose, for 50 percent of test population.
	ng-term exposure.
	edicted No Effect Concentration.
RID: Reg	gulation Concerning the International Transport of Dangerous Goods

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	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.