

	of the sub	stance/mixture	e and of	the company/undertaking	
1.1. Product identifier	tion				
Mixture identificat Trade name:	lion.	Ink Cartridge,	Pod	T8919	
Trade name.		ink Cannuge,	Reu,	10919	
1.2. Relevant identified Recommended u		ubstance or mixt	ture and u	ses advised against	
	Ink for inkje				
1.3. Details of the suppl Company:		-			
		JROPE B.V.			
	Zuidoost T	he Netherlands	-	dreef 5,1101 BA Amsterdam	
Compotent perce	Phone num			20-314-5000	
Competent perso		e for the safety d			
Date:	Chemicais	26/05/2017	COM		
Revision:		1.0			
1.4. Emergency telepho	ne 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) The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).					
Adverse physicoo No other h		nan health and e	environme	ntal effects:	
2.2. Label elements					
Hazard pictogram		s dangerous acc	ording to	Regulation EC 1272/2008 (CLP).	i.
None Hazard statemen	to				
None	13.				
Precautionary sta	tements:				
None					
Special Provision	s:				
None					
Special provision: None	s according to	o Annex XVII of	REACH a	nd subsequent amendments:	
2.3. Other hazards					
vPvB Substances	: None - PB1	Substances: No	one		
Other Hazards:					
No other h	azards				
SECTION 3: Composition	informatio	n on ingredier	ItS		
3.1. Substances					
No 3.2. Mixtures					
	onents within	the meaning of	the CLP r	egulation and related classification	on:
Qty Name	1	dent. Number		Classification	
Qty Name				CIASSIIICALIUII	



65% ~ 80%	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).
5% ~ 7%	(2-Methoxymethyletho xy)propanol	CAS: EC:	34590-94-8 252-104-2	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:

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. 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. 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
 - 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.

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 properties Appearance and colour: Red Liquid



Odour: Odour threshold: pH: Melting point / freezing point: Initial boiling point and boiling range: Solid/gas flammability: Upper/lower flammability or explosive limits: Vapour density: Flash point:

Evaporation rate: Vapour pressure: Relative density: Solubility in water: Solubility in oil: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidizing properties: 9.2. Other information

9.2. Other Information Miscibility: Fat Solubility: 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:

e) germ cell mutagenicity:

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:

1-ethoxy-2-(2-methoxyethoxy)ethane - CAS: 1002-67-1 a) acute toxicity:

T8919_en Page n. 4 of 7

Slightly No data available Not Relevant No data available 62.5 °C / 145 ° F ASTM D 3278) No data available No data available No data available Soluble No data available No data available No data available No data available < 5 mPa⋅s at 20 °C No data available No data available

(closed cup method,

No data available No data available No data available

> Version 8.0 Revison 1.0



- 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. 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
- 2.6. 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)

T8919_en Page n. 5 of 7 Version 8.0 Revison 1.0



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: No restriction. 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

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)

T8919_en Page n. 6 of 7



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.