

SECTION 1: Identification of the subs 1.1. Product identifier Mixture identification:	stance/mixture and of the company/undertaking			
Trade name:	Ink, T51P3			
1.2. Relevant identified uses of the su Recommended use:	ubstance or mixture and uses advised against			
Ink for inkje				
 1.3. Details of the supplier of the safe 	ety data sheet			
Company:				
	JROPE B.V.			
	ng, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam			
	he Netherlands			
Phone num				
Competent person responsible for the safety data sheet:				
chemicals@	•			
Date:	06/03/2024			
Revision:	8.0			
1.4. Emergency telephone number				
Phone number:	+31-20-314-5000			
United Kingdom;	01952 607111 Monday to Friday 9am to 5:30pm.			
	Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.			
Ireland;	+353 (01) 809 2566 or +353 (01) 809 2166			
Malta;	2545 0000 or 21224071			

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 physicochemical, human health and environmental effects:
 - No other hazards
- 2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). Hazard pictograms:

- None
- Hazard statements:

None

Precautionary statements:

None

Special Provisions:

EUH210 Safety data sheet available on request.

- Special provisions according to Annex XVII of REACH and subsequent amendments: None
- 2.3. Other hazards
 - No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%Other Hazards:
 - No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

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No

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number		Classification
65% ~	1-ethoxy-2-(2-methoxy	CAS:	1002-67-1	The product is not classified as
80%	ethoxy)ethane	EC:	213-690-5	dangerous according to
		REACH No.:	01-21202835	Regulation EC 1272/2008 (CLP).
			43-53	
10% ~	gamma-Butyrolactone	CAS:	96-48-0	The product is not classified as
12.5%		EC:	202-509-5	dangerous according to
		REACH No.:	01-21194718	Regulation EC 1272/2008 (CLP).
			39-21	
5% ~ 7%	(2-Methoxymethyletho	CAS:	34590-94-8	Substance with a Union workplace
	xy)propanol	EC:	252-104-2	exposure limit.
		REACH No.:	01-21194500	
			11-60	

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.

SECTION 6: Accidental release measures

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- 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
 - (2-Methoxymethylethoxy)propanol CAS: 34590-94-8
 - OEL Type: EU TWA(8h): 308 mg/m3, 50 ppm
 - OEL Type: ACGIH TWA(8h): 50 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 splashing 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: 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

9.1. Information on basic physical and chemica	Il properties
Physical state:	Liquid
Colour:	Magenta
Odour:	Slightly
Melting point / freezing point:	No data available
Boiling point or initial boiling point and bo	biling range:
	No data available
Lower and upper explosion limit:	No data available
Flash point:	66.0 °C / 151 ° F (closed cup
	method, ASTM D 3278)
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	Not Relevant
Kinematic viscosity:	No data available
Solubility in water:	Soluble
Vapour pressure:	No data available
Density and/or relative density:	0.98 at 20 °C
	Specific gravity (relative density)
Relative vapour density:	No data available
Particle characteristics:	Not Relevant

9.2. Other information Viscosity:

SECTION 10: Stability and reactivity

- 10.1. Reactivity
 - Stable under normal conditions
- 10.2. Chemical stabilityStable under normal conditions10.3. 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:
 - Test: Mutagenesis Species: Salmonella Typhimurium and Escherichia coli Negative

at 20 °C

< 5 mPa⋅s

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f) carcinogenicity: Does not contain carcinogens (Ref. 1) a) 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: 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

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- 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) Regulation (EU) n. 2021/849 (ATP 17 CLP) Regulation (EU) n. 2022/692 (ATP 18 CLP) Regulation (EU) n. 2023/1434 (ATP 19 CLP) Regulation (EU) n. 2023/1435 (ATP 20 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 40 Restrictions related to the substances contained: 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

Paragraphs modified from the previous revision: SECTION 1: Identification of the substance/mixture and of the company/undertaking SECTION 6: Accidental release measures SECTION 8: Exposure controls/personal protection SECTION 15: Regulatory information

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

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 (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) 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

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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.

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This Safety Data Sheet cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical
	Society).
CLP: DNEL:	Classification, Labeling, Packaging. 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
1474	
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.