

SECTION 1: Identification of the sub	stance/mixture and of the company/undertaking
1.1. Product identifier	
Mixture identification:	Int Contridge T07112
Trade name:	Ink Cartridge, T07U3
1.2. Relevant identified uses of the s Recommended use:	ubstance or mixture and uses advised against
Ink for inkje	
1.3. Details of the supplier of the safe Company:	
	JROPE B.V. ng, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam
Zuidoost T	he Netherlands
Phone nun Competent person responsible	
chemicals	
Date:	02/06/2020
Revision:	3.1
1.4. Emergency telephone number	0/ 00 0// 5000
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 of	or mixture
•	08 (CLP) ified as dangerous according to Regulation EC 1272/2008
(CLP). Adverse physicochemical, hur No other hazards	nan health and environmental effects:
2.2. Label elements	
	s dangerous according to Regulation EC 1272/2008 (CLP).
Hazard pictograms:	
None Hazard statements:	
None	
Precautionary statements:	
None	
Special Provisions:	
	eet available on request. ',9-tetramethyldec-5-yne-4,7-diol. May produce an allergic
reaction.	,9-tetrametryidec-5-yne-4,7-diol. May produce an allergic
	enzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May
	o Annex XVII of REACH and subsequent amendments:
2.3. Other hazards	
vPvB Substances: None - PB Other Hazards:	I Substances: None
No other hazards	

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#### **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
65% ~ 80%	Water	CAS: EC:	7732-18-5 231-791-2	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
10% ~ 12.5%	Glycerol	CAS: EC:	56-81-5 200-289-5	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
1% ~ 3%	2-[2-(2-butoxyethoxy)et hoxy]ethanol; TEGBE; triethylene glycol monobutyl ether	Index number: CAS: EC: REACH No.:	603-183-00-0 143-22-6 205-592-6 01-21194751 07-38	
1% ~ 3%	Triethanol amine	CAS: EC:	102-71-6 203-049-8	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
0.25% ~ 0.5%	2,4,7,9-tetramethyldec- 5-yne-4,7-diol	CAS: EC:	126-86-3 204-809-1	<ul> <li>3.3/1 Eye Dam. 1 H318</li> <li>3.4.2/1B Skin Sens. 1B H317</li> <li>4.1/C3 Aquatic Chronic 3 H412</li> </ul>
< 0.05%	1,2-benzisothiazol-3(2 H)-one; 1,2-benzisothiazolin-3- one	Index number: CAS: EC:	613-088-00-6 2634-33-5 220-120-9	<ul> <li>3.1/4/Oral Acute Tox. 4 H302</li> <li>3.2/2 Skin Irrit. 2 H315</li> <li>3.3/1 Eye Dam. 1 H318</li> <li>3.4.2/1-1A-1B Skin Sens.</li> <li>1,1A,1B H317</li> <li>4.1/A1 Aquatic Acute 1 H400</li> </ul>

#### **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.

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**

- 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

Glycerol - CAS: 56-81-5

OEL Type: OSHA - TWA: 5 mg/m3 - Notes: Respirable dust
 OEL Type: OSHA - TWA: 15 mg/m3 - Notes: Total dust
 Triethanol amine - CAS: 102-71-6

 OEL Type: ACGIH - TWA(8h): 5 mg/m3

 DNEL Exposure Limit Values

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No data available

PNEC Exposure Limit Values

2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether - CAS: 143-22-6

Target: Fresh Water - Value: 1.5 mg/l

Target: Freshwater sediments - Value: 5.77 mg/kg

Target: Marine water - Value: 0.15 mg/l

Target: Marine water sediments - Value: 0.13 mg/kg

Target: Microorganisms in sewage treatments - Value: 200 mg/l

2,4,7,9-tetramethyldec-5-yne-4,7-diol - CAS: 126-86-3

Target: Fresh Water - Value: 0.04 mg/l

Target: Marine water - Value: 0.004 mg/l

Target: Freshwater sediments - Value: 0.32 mg/kg

Target: Marine water sediments - Value: 0.032 mg/kg

8.2. Exposure controls

8.2.1. Appropriate engineering controls:

- None
- 8.2.2. Individual protection measures, such as personal protective equipment Eye protection:

Use personal protective equipment as required.

Protection for skin:

Use personal protective equipment as required. Protection for hands:

Use personal protective equipment as required.

Respiratory protection:

Use personal protective equipment as required. 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	erties
Appearance and colour:	Magenta Liquid
Odour:	Slightly
Odour threshold:	No data available
PH:	8.8 ~ 9.8 at 20 °C
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:	> 100 °C / 212 ° F
Evaporation rate:	No data available
Vapour pressure:	No data available
Relative density:	No data available
Solubility in water:	Complete
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 20 °C
Explosive properties:	No data available
Oxidizing properties:	No data available
9.2. Other information	

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None

None.

Miscibility:	No data available
Fat Solubility:	No data available
Conductivity:	No data available

#### **SECTION 10: Stability and reactivity**

- 10.1. Reactivity
- 10.2. Chemical stability
- 10.3. Possibility of hazardous reactions
- 10.4. Conditions to avoid
- 10.5. Incompatible materials
- 10.6. Hazardous decomposition products

#### **SECTION 11: Toxicological information**

- 11.1. Information on toxicological effects
  - Toxicological information of the product:

e) germ cell mutagenicity:

f) carcinogenicity:

g) reproductive toxicity:

Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli Negative Does not contain carcinogens (Ref. 1) Does not contain reproductive toxicity and developmental toxic substances (Ref. 2)

Toxicological information of the main substances found in the product:

Glycerol - CAS: 56-81-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Guinea pig = 7750 mg/kg - Source: Journal of Industrial Hygiene and Toxicology. Vol. 23, Pg. 259, 1941 Test: LDLo - Route: Oral - Species: Human = 1428 mg/kg - Source: "Toxicology

Stable under normal conditions

Stable under normal conditions

Stable under normal conditions.

None in particular.

of Drugs and Chemicals," Deichmann, W.B., New York, Academic Press, Inc., 1969Vol. -, Pg. 288, 1969.

2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether - CAS: 143-22-6

a) acute toxicity:

Test: LD50 - Route: Dermal - Species: Rabbit = 3.54 ml/kg - Source: American Industrial Hygiene Association Journal. Vol. 23, Pg. 95, 1962.

Test: LD50 - Route: Oral - Species: Rat = 5300 mg/kg - Source: Office of Toxic Substances Report. Vol. OTS,

Triethanol amine - CAS: 102-71-6

#### a) acute toxicity:

Test: LD50 - Route: Oral - Species: Guinea pig = 2200 mg/kg - Source: "Toxicometric Parameters of Industrial Toxic Chemicals Under Single Exposure," Izmerov, N.F., et al., Moscow, Centre of International Projects, GKNT, 1982Vol. -, Pg. 114, 1982.

Test: LD50 - Route: Oral - Species: Mouse = 5846 mg/kg - Source: Science Reports of the Research Institutes, Tohoku University, Series C: Medicine. Vol. 36(1-4), Pg. 10, 1989.

2,4,7,9-tetramethyldec-5-yne-4,7-diol - CAS: 126-86-3

Test: LD50 - Route: Dermal - Species: Rat > 2000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Mild irritant

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Highly irritating

d) respiratory or skin sensitisation:

Test: Skin Sensitisation - Route: LLNA - Species: Mouse Sensitiser e) germ cell mutagenicity:

Test: Mutagenesis - Species: Salmonella Typhimurium Negative

a) acute toxicity:



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 eve 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.
  - 2,4,7,9-tetramethyldec-5-yne-4,7-diol CAS: 126-86-3
  - a) Aquatic acute toxicity:
    - Endpoint: LC50 Species: Fish = 36 mg/l Duration h: 96
      - Endpoint: EC50 Species: Daphnia = 88 mg/l Duration h: 48
    - Endpoint: EC50 Species: Algae = 15 mg/l Duration h: 72
  - c) Bacteria toxicity:
    - Endpoint: EC50 Species: activated sludge = 630 mg/l Duration h: 0.5 No data available
- 12.2. Persistence and degradability
- 12.3. Bioaccumulative potential
- 12.4. Mobility in soil
- 12.5. Results of PBT and vPvB assessment vPvB Substances: None - PBT Substances: 12.6. Other adverse effects
- None None

No data available

No data available

#### **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. No data available
- 14.2. UN proper shipping name
- 14.3. Transport hazard class(es)
- 14.4. Packing group
- 14.5. Environmental hazards
- 14.6. Special precautions for user
- 14.7. Transport in bulk according to Annex II of Marpol 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) Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 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 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**

Full text of phrases referred to in Section 3:

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H400 Very toxic to aquatic life.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 14: Transport information

SECTION 15: Regulatory information

SECTION 16: Other 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 packaging of substances and mixtures, amending and repealing Directives 67/548/EEC
- 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: CAS: CLP: DNEL: EINECS: GefStoffVO: GHS: IATA: IATA-DGR:	European Agreement concerning the International Carriage of Dangerous Goods by Road. Chemical Abstracts Service (division of the American Chemical Society). Classification, Labeling, Packaging. Derived No Effect Level. European Inventory of Existing Commercial Chemical Substances. Ordinance on Hazardous Substances, Germany. Globally Harmonized System of Classification and Labeling of Chemicals. International Air Transport Association. Dangerous Goods Begulation by the "International Air Transport Association"
IATA-DGR: ICAO: ICAO-TI: IMDG: INCI: KSt: LC50: LD50: PNEC: RID:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA). International Civil Aviation Organization. Technical Instructions by the "International Civil Aviation Organization" (ICAO). International Maritime Code for Dangerous Goods. International Nomenclature of Cosmetic Ingredients. Explosion coefficient. Lethal concentration, for 50 percent of test population. Lethal dose, for 50 percent of test population. Predicted No Effect Concentration. Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: STOT: TLV: TWA: WGK:	Short Term Exposure limit. Specific Target Organ Toxicity. Threshold Limiting Value. Time-weighted average German Water Hazard Class.