Safety Data Sheet Cover Page

Why are there two Safety Data Sheets?

Epson is providing this document to inform you that there are two different compositions of the same ink available on the market, resulting in two Safety Data Sheets for the same ink.

Epson has changed the composition of this ink to substitute a component that has been classified as hazardous while the ink with the old composition is still on the market. For this reason, there are two Safety Data Sheets for the same ink.

To determine which Safety Data Sheet applies to your product, and to ensure that you have the correct information about hazards and risk management measures, we ask that you check the best-before date indicated on the packaging of the ink cartridge. See the following for details on how to check the date.

How to check which Safety Data Sheet you need to refer to:

	Best-before date (YYYYMM)	Revision	Page
Replacement ink cartridge		5.0	Page 2 - 11
	In and after: 2026.01	6.0	Page 12 - 21

Where to find the best-before date:

Ink Cartridge Packaging		
Pattern.1	Pattern.2	Pattern.3
OUDERLIERO	Best-before date	Best-before date



SECTION 1: Identification of the sub	stance/mixture and of the company/undertaking
1.1. Product identifier	
Mixture identification:	
Trade name:	INK CARTRIDGE,BK 408 (Best-before date: Before 2026.01)
Trade code:	C13T09J140
	ubstance or mixture and uses advised against
Recommended use:	
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	
chemicals	
Date:	20/10/2022
Revision:	5.0
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	

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.

EUH208 Contains 2,4,7,9-tetramethyldec-5-yne-4,7-diol. May produce an allergic reaction.

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:

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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
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).
7% ~ 10%	Glycerol	CAS: EC:	56-81-5 200-289-5	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
5% ~ 7%	Carbon black	CAS: EC:	1333-86-4 215-609-9	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
3% ~ 5%	2-[2-(2-butoxyethoxy)et hoxy]ethanol; TEGBE; triethylene glycol monobutyl ether	number: CAS: EC:	603-183-00-0 143-22-6 205-592-6 01-21194751 07-38	 3.3/1 Eye Dam. 1 H318 Specific Concentration Limits: C >= 30%: Eye Dam. 1 H318 20% <= C < 30%: Eye Irrit. 2 H319
1% ~ 3%	2-Pyrrolidone	CAS: EC: REACH No.:	616-45-5 210-483-1 01-21194754 71-37	 3.3/2 Eye Irrit. 2 H319 3.7/1B Repr. 1B H360 Specific Concentration Limits: C >= 3%: Repr. 1B H360
0.5% ~ 1%	Triethanolamine	CAS: EC: REACH No.:	102-71-6 203-049-8 01-21194864 82-31	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
0.1% ~ 0.25%	2,4,7,9-tetramethyldec- 5-yne-4,7-diol	CAS: EC: REACH No.:	126-86-3 204-809-1 01-21199543 90-39	 3.3/1 Eye Dam. 1 H318 3.4.2/1B Skin Sens. 1B H317 4.1/C3 Aquatic Chronic 3 H412

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:

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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.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
 - Glycerol CAS: 56-81-5
 - OEL Type: OSHA TWA: 5 mg/m3 Notes: Respirable dust

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- OEL Type: OSHA - TWA: 15 mg/m3 - Notes: Total dust Carbon black - CAS: 1333-86-4 - OEL Type: ACGIH - TWA(8h): 3 mg/m3 - OEL Type: OSHA - TWA: 3.5 mg/m3 - OEL Type: JSOH - TWA: 1 mg/m3 - Notes: as Class 2 Dusts (Respirable dust) - OEL Type: JSOH - TWA: 4 mg/m3 - Notes: as Class 2 Dusts (Total dust) - Notes: as total dust Triethanolamine - CAS: 102-71-6 - OEL Type: ACGIH - TWA(8h): 5 mg/m3 DNEL Exposure Limit Values 2-Pyrrolidone - CAS: 616-45-5 Worker Industry: 13.23 mg/m3 - Worker Professional: 1.985 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Worker Industry: 1.876 mg/kg/day - Worker Professional: 0.67 mg/kg/day -Exposure: Human Dermal - Frequency: Long Term, systemic effects Worker Professional: 0.67 mg/kg/day - Exposure: Human Oral - Frequency: Long Term, systemic effects Triethanolamine - CAS: 102-71-6 Worker Industry: 6.3 mg/kg/day - Consumer: 3.1 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects Worker Industry: 5 mg/m3 - Consumer: 1.25 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Consumer: 13 mg/kg/day - Exposure: Human Oral - Frequency: Short Term, systemic effects 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-Pyrrolidone - CAS: 616-45-5 Target: Fresh Water - Value: 0.5 mg/l Target: Freshwater sediments - Value: 2.17 mg/kg Target: Marine water - Value: 0.05 mg/l Target: Marine water sediments - Value: 0.217 mg/kg Target: Microorganisms in sewage treatments - Value: 10 mg/l Triethanolamine - CAS: 102-71-6 Target: Fresh Water - Value: 0.32 mg/l Target: Marine water - Value: 0.032 mg/l Target: Freshwater sediments - Value: 1.7 mg/kg Target: Marine water sediments - Value: 0.17 mg/kg Target: Soil (agricultural) - Value: 0.151 mg/kg 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.

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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 Appropriate engineering controls: None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

information on basic physical and chemi	
Physical state:	Liquid
Colour:	Black
Odour:	Slightly
Melting point / freezing point:	No data available
Boiling point or initial boiling point and	boiling range:
	No data available
Flammability:	Non-flammable
Lower and upper explosion limit:	No data available
Flash point:	> 100 °C / 212 ° F
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	8.6 ~ 9.6 at 20 °C
Kinematic viscosity:	No data available
Solubility in water:	Complete

9.2. Other information Viscosity:

< 5 mPa⋅s at 20 °C

No data available

No data available

Not Relevant

SECTION 10: Stability and reactivity

Vapour pressure:

Relative vapour density:

Particle characteristics:

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 hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological information of the product:e) germ cell mutagenicity:

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Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli Negative f) carcinogenicity: Components do not come under carcinogens (Ref. 1), except for Carbon black 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 of Drugs and Chemicals," Deichmann, W.B., New York, Academic Press, Inc., 1969Vol. -, Pg. 288, 1969. Carbon black - CAS: 1333-86-4 a) acute toxicity: Test: LD50 - Route: Dermal - Species: Rabbit > 3 g/kg - Source: Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 15 Test: LD50 - Route: Oral - Species: Rat > 15400 mg/kg - Source: Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 15 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, 2-Pyrrolidone - CAS: 616-45-5 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg Test: LD50 - Route: Dermal - Species: Rabbit > 2000 mg/kg b) skin corrosion/irritation: Test: Skin Irritant - Species: Rabbit Non-irritant c) serious eye damage/irritation: Test: Eye Irritant - Species: Rabbit Moderate irritant - Based on available data, the classification criteria are not met d) respiratory or skin sensitisation: Test: Skin Sensitisation - Route: LLNA - Species: Mouse Negative e) germ cell mutagenicity: Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli Negative Triethanolamine - 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 a) acute toxicity: 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 C13T09J140 en Best-before date: Before 2026.01 Version 8.2 Page n. 7 of 21 Revision 5.0



d) respiratory or skin sensitisation:

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

Test: Mutagenesis - Species: Salmonella Typhimurium Negative Carbon black - CAS: 1333-86-4

With excessive exposure, carbon black has been listed as a possible human carcinogen. However, as engineered within this ink cartridge, emissions to air of carbon black during normal printing use have not been found. IARC, the International Agency for Research on Cancer, has found printing inks to be not classifiable as human carcinogens.

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:

2-Pyrrolidone - CAS: 616-45-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 4600 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia > 500 mg/l - Duration h: 24

- Endpoint: EC50 Species: Algae > 500 mg/l Duration h: 72
- 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
- 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. Endocrine disrupting properties

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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 (EC) n. 2021/849 (ATP 17 CLP) Regulation (EC) n. 2022/692 (ATP 18 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.

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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

Full text of phrases referred to in Section 3:

- H318 Causes serious eye damage.
- H319 Causes serious eve irritation.
- H360 May damage fertility or the unborn child.
- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
Repr. 1B	3.7/1B	Reproductive toxicity, Category 1B
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

This safety data sheet has been completely updated in compliance to Regulation 2020/878.

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)



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.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical
CLP:	Society). 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 Aviation 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: PNEC:	Lethal dose, for 50 percent of test population. Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods
RID.	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.



	stance/mixture and of the company/undertaking
1.1. Product identifier	
Mixture identification:	
Trade name:	INK CARTRIDGE,BK 408
T ((Best-before date: In and after 2026.01)
Trade code:	C13T09J140
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
Recommended use:	
Ink for inkj	et printing
1.3. Details of the supplier of the saf	ety data sheet
Company:	•
	UROPE B.V.
Azie buildi	ng, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam
	The Netherlands
Phone nur	nber: +31-20-314-5000
Competent person responsibl	
	@epson.eu
Date:	05/06/2023
Revision:	6.0
1.4. Emergency telephone number	
Phone number:	+31-20-314-5000
United Kingdom;	01952 607111 Monday to Friday 9am to 5:30pm.
e	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
•	2545 0000 or 21224071
Malta;	2545 0000 01 21224071
SECTION 2: Hazards identification	

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.

EUH208 Contains 2,4,7,9-tetramethyldec-5-yne-4,7-diol. May produce an allergic reaction.

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:

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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
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).
7% ~ 10%	Glycerol	CAS: EC:	56-81-5 200-289-5	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
5% ~ 7%	Carbon black	CAS: EC:	1333-86-4 215-609-9	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
3% ~ 5%	2-[2-(2-butoxyethoxy)et hoxy]ethanol; TEGBE; triethylene glycol monobutyl ether	number: CAS: EC:	603-183-00-0 143-22-6 205-592-6 01-21194751 07-38	 3.3/1 Eye Dam. 1 H318 Specific Concentration Limits: C >= 30%: Eye Dam. 1 H318 20% <= C < 30%: Eye Irrit. 2 H319
0.5% ~ 1%	Triethanolamine	CAS: EC: REACH No.:	102-71-6 203-049-8 01-21194864 82-31	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
0.1% ~ 0.25%	2,4,7,9-tetramethyldec- 5-yne-4,7-diol	CAS: EC: REACH No.:	126-86-3 204-809-1 01-21199543 90-39	 3.3/1 Eye Dam. 1 H318 3.4.2/1B Skin Sens. 1B H317 4.1/C3 Aquatic Chronic 3 H412

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

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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.

- Advice for firefighters
- 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.
 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

- 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

- Carbon black CAS: 1333-86-4
 - OEL Type: ACGIH TWA(8h): 3 mg/m3
 - OEL Type: OSHA TWA: 3.5 mg/m3
 - OEL Type: JSOH TWA: 1 mg/m3 Notes: as Class 2 Dusts (Respirable dust)

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- OEL Type: JSOH - TWA: 4 mg/m3 - Notes: as Class 2 Dusts (Total dust) - Notes: as total dust Triethanolamine - CAS: 102-71-6 - OEL Type: ACGIH - TWA(8h): 5 mg/m3 **DNEL Exposure Limit Values** Triethanolamine - CAS: 102-71-6 Worker Industry: 6.3 mg/kg/day - Consumer: 3.1 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects Worker Industry: 5 mg/m3 - Consumer: 1.25 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Consumer: 13 mg/kg/day - Exposure: Human Oral - Frequency: Short Term, systemic effects **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 Triethanolamine - CAS: 102-71-6 Target: Fresh Water - Value: 0.32 mg/l Target: Marine water - Value: 0.032 mg/l Target: Freshwater sediments - Value: 1.7 mg/kg Target: Marine water sediments - Value: 0.17 mg/kg Target: Soil (agricultural) - Value: 0.151 mg/kg 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 Appropriate engineering controls: None **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties Physical state: Liquid Colour: Black



Odour: Melting point / freezing point: Boiling point or initial boiling point and boiling r	Slightly No data availabl ange:	le
Flammability: Lower and upper explosion limit: Flash point: Auto-ignition temperature:	No data availab Non-flammable No data availab Does not flash. No data availab	le
Decomposition temperature: pH: Kinematic viscosity: Solubility in water:	No data availab	le at 20 °C
Vapour pressure: Relative vapour density: Particle characteristics:	No data availabl No data availabl Not Relevant	
9.2. Other information Viscosity:	< 5 mPa⋅s	at 20 °C

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 hazard classes as defined in Regulation (EC) No 1272/2008
 - Toxicological information of the product:
 - f) carcinogenicity:

Components do not come under carcinogens (Ref. 1), except for Carbon black g) reproductive toxicity:

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

- Carbon black CAS: 1333-86-4
- a) acute toxicity:

Test: LD50 - Route: Dermal - Species: Rabbit > 3 g/kg - Source: Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 15



Test: LD50 - Route: Oral - Species: Rat > 15400 mg/kg - Source: Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 15 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,

Triethanolamine - 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

a) acute toxicity:

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 Carbon black - CAS: 1333-86-4

With excessive exposure, carbon black has been listed as a possible human carcinogen. However, as engineered within this ink cartridge, emissions to air of carbon black during normal printing use have not been found. IARC, the International Agency for Research on Cancer, has found printing inks to be not classifiable as human carcinogens.

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

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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: 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 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. 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)

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Version 8.2 Revision 6.0



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) 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: **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

Full text of phrases referred to in Section 3:

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
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 3: Composition/information on ingredients SECTION 8: Exposure controls/personal protection

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SECTION 9: Physical and chemical properties SECTION 11: Toxicological information SECTION 12: Ecological information SECTION 15: Regulatory information SECTION 16: Other information

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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

- 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) · Annex VI of REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT
- 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.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS: GefStoffVO:	European Inventory of Existing Commercial Chemical Substances. 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.

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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.