

Issue date 24-Sep-2019 (DD-MM-YYYY)

Revision date 31-Aug-2023 (DD-MM-YYYY)  
Version 7

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

### 1.1. Product Identifier

**Product name** INK BOTTLE,CL,1000ML  
UFI:RYCD-0XV1-0H4V-5947

**Product code** T49V0

**Pure substance/mixture** mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Ink jet ink (solvent-based)

**Uses advised against** No information available

### 1.3. Details of the supplier of the safety data sheet

<u>Company Name</u>	<u>Importer / Supplier</u>
EPSON EUROPE B.V. Azie building, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam Zuidoost The Netherlands Phone number: +31-20-314-5000	-

For further information, please contact

**Contact Point** +31-20-314-5000  
**Email address** chemicals@epson.eu

### 1.4. Emergency telephone number

**Emergency telephone** Phone number: +31-20-314-5000  
folkehelseinstituttet; +47 22 59 13 00

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

*Regulation (EC) No 1272/2008*

Serious eye damage/eye irritation	Category 2 - (H319)
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### 2.2. Label Elements

Symbols/Pictograms



**Signal Word**  
WARNING

**hazard statements**

H319 - Causes serious eye irritation

**precautionary statements**

P264 - Wash hands after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

**2.3. Other Hazards**

**General Hazards**

No information available

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

**3.2 MIXTURES**

**Ingredients contributing to the classification of the mixture, etc.**

Chemical name	EC No	CAS No	weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP] / Other	REACH registration number
Diethylene glycol diethyl ether	203-963-7	112-36-7	90-100	Eye Irrit. 2A (H319)	-
Propylene carbonate	203-572-1	108-32-7	5-10	Eye Irrit. 2 (H319)	-

**Full text of H- and EUH-phrases: see section 16**

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General advice**

Do not breathe dust/fume/gas/mist/vapours/spray  
Do not get in eyes, on skin, or on clothing

**inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
If breathing is irregular or stopped, administer artificial respiration  
Seek immediate medical attention/advice

**Skin contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes

Get medical attention if irritation develops and persists

**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes  
If eye irritation persists: Get medical advice/attention

**INGESTION**

Do NOT induce vomiting  
Potential for aspiration if swallowed  
Clean mouth with water  
Get medical attention

**4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available

**4.3. Indication of any immediate medical attention and special treatment needed**

**Note to doctors** No information available

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

CO2, dry chemical, dry sand, alcohol-resistant foam, mist of alkali salts water  
Move containers from fire area if you can do it without risk  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment  
Remove combustible materials from their surroundings immediately

**Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire

**5.2. Special hazards arising from the substance or mixture**

**Specific hazards arising from the chemical**

No information available

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

Use personal protective equipment as required  
In the event of fire and/or explosion do not breathe fumes  
Special protective equipment for fire-fighters

**Special Extinguishing Media**

Cool container with water spray

**Flammable properties**

May re-ignite after fire is extinguished  
FLAMMABLE  
Containers may explode when heated  
Will form explosive mixtures with air  
Vapours from liquefied gas are initially heavier than air and spread along ground

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

Stay upwind

Evacuate personnel to safe areas  
 ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area)  
 Use personal protective equipment as required  
 Avoid contact with skin, eyes and inhalation of vapours  
 In the case of vapour formation use a respirator with filter model  
 In case of fire: Stop leak if safe to do so  
 Do not touch damaged containers or spilled material unless wearing appropriate protective clothing  
 Ensure adequate ventilation, especially in confined areas  
 Wash thoroughly after handling  
 Take precautionary measures against static discharges

**Other information** Ventilate the area

### 6.2. Environmental precautions

**Environmental Precautions** See Section 12 for additional Ecological Information  
 Dispose of contents/container to an approved waste disposal plant  
 Do not flush into surface water or sanitary sewer system  
 Avoid release to the environment  
 Collect spillage

### 6.3. Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so

**Methods for cleaning up** Soak up with inert absorbent material  
 Dam up  
 Use only non-sparking tools

### 6.4. Reference to other sections

**Reference to other sections** No information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Take precautionary measures against static discharges  
 Use personal protection recommended in Section 8  
 Use only in well-ventilated areas  
 Avoid contact with skin, eyes or clothing  
 Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea  
 Do not breathe dust/fume/gas/mist/vapours/spray  
 Wash contaminated clothing before reuse  
 Wash hands thoroughly and gargle after handling  
 Burn or dispose of the wiping cloths used to clean up the product at once

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place  
 Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)  
 Use spark-proof tools and explosion-proof equipment  
 Incompatible with oxidising agents  
 Store locked up  
 The product shall be stored in the original containers/vessels

### 7.3. Specific end use(s)

**Other information** No information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Chemical name	European Union	United Kingdom	France	Spain	Germany
Propylene carbonate	-	-	-	-	TWA: 2 ppm TWA: 8.5 mg/m <sup>3</sup> Ceiling / Peak: 2 ppm Ceiling / Peak: 8.5 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

### 8.2. Exposure controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas  
Showers  
Eyewash stations  
Ventilation systems

#### **Personal Protective Equipment**

**Eye/face Protection** Wear safety glasses with side shields (or goggles)

**Hand protection** Wear protective gloves

**Skin and Body Protection** Wear suitable protective clothing  
Antistatic footwear

**Respiratory protection** Wear suitable respiratory equipment  
Respirator cartridge should be exchanged at regular intervals or at proper time according to breakthrough time

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical State</b>	liquid	<b>Odour</b>	slight odor
<b>appearance</b>	No information available	<b>odour threshold</b>	No information available
<b>color</b>	clear		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	not applicable	
<b>Melting point/freezing point</b>	no data available	
<b>Boiling point/boiling range</b>	no data available	No information available

Flash Point	≥70°C	Ceta Closed Cup
Evaporation Rate	no data available	No information available
Combustibility	Combustible	
Flammability Limits in Air		
Upper flammability limits	no data available	
Lower Flammability Limit	no data available	
vapour pressure	no data available	No information available
Vapour density	no data available	No information available
Relative Density	0.9-1.1	
solubility(ies)		
Water solubility	Soluble in water	
Organic Solvent Solubility	soluble in organic solvents	
Partition coefficient	no data available	No information available
Autoignition temperature	no data available	No information available
decomposition temperature	no data available	No information available
Kinematic viscosity	no data available	
Explosive properties	No information available	
Oxidising properties	No information available	
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

## 9.2. Other information

softening point	no data available
density	no data available

Chemical name	Boiling point °C	density	Vapour pressure	Vapour density	Flash Point	Autoignition temperature
Diethylene glycol diethyl ether	188 °C	-	0.5 mmHg at 25 °C	-	82 °C open cup	-
Propylene carbonate	241.9 °C	1.204 g/cm <sup>3</sup> at 20 °C	0.03 mmHg at 20 °C	3.52	135 °C open cup	510 °C

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	no data available
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### 10.2. Chemical stability

stability	Stable under normal conditions Heating may cause an explosion
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#### Explosion data

**Sensitivity to Mechanical Impact** May be ignited by heat, sparks or flames

**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No information available
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### 10.4. Conditions to avoid

Conditions to Avoid	Take precautionary measures against static discharges
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Extremes of temperature and direct sunlight

## 10.5. Incompatible materials

**Incompatible Materials** Reference to other sections; 7

## 10.6. Hazardous decomposition products

**Hazardous decomposition products** May emit toxic fumes under fire conditions

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute Toxicity

<b>inhalation</b>	Reference to other sections; 4
<b>Eye Contact</b>	Reference to other sections; 4
<b>Skin contact</b>	Reference to other sections; 4
<b>INGESTION</b>	Reference to other sections; 4

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (dermal)** 7,340.50 mg/kg

#### Unknown acute toxicity

- 0.0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0.0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour)

Chemical name	Oral LD50	dermal LD50	Inhalation LC50	Classification according to Regulation (EC) No. 1272/2008 [CLP] / Other	Japan GHS Classification / Other
Diethylene glycol diethyl ether	4970 mg/kg ( Rat )	6700 µL/kg ( Rabbit )	-	Eye Irrit. 2A (H319)	Eye Irrit. 2A Flam. Liq. 4
Propylene carbonate	29000 mg/kg ( Rat )	> 3000 mg/kg ( Rabbit )	-	Eye Irrit. 2 (H319)	Eye Irrit. 2A

#### GHS/CLP Classification Note:

Acute Tox. Der. :Acute toxicity - Dermal, Acute Tox. Inh. (D/M) :Acute toxicity - Inhalation - Dusts and Mists, Acute Tox. Inh. (Gas) :Acute toxicity - Inhalation - Gases, Acute Tox. Inh. (Vap) :Acute toxicity - Inhalation - Vapours, Acute Tox. Oral :Acute toxicity - Oral, Aquatic Acute :Acute Hazardous to the aquatic environment, Aquatic Chronic :Chronic Hazardous to the aquatic environment, Asp. Tox. :Aspiration hazard, Carc. :Carcinogenicity, Expl. :Explosives, Eye Dam. :Serious eye damage, Eye Irrit. :Eye irritation, Flam. Gas :Flammable gases (including chemically unstable gases), Flam. Liq. :Flammable liquids, Flam. Solid :Flammable solids, Lact. :Effects on or via lactation, Met. Corr. :Corrosive to metals, Muta. :Germ cell mutagenicity, Org. Perox. :Organic peroxides, Ox. Gas :Oxidizing gases, Ox. Liq. :Oxidizing liquids, Ox. Sol. :Oxidizing solids, Press. Gas :Gases under pressure, Pyr. Liq. :Pyrophoric liquids, Pyr. Sol. :Pyrophoric solids, Repr. :Reproductive toxicity, Resp. Sens. :Respiratory sensitization, Self-heat. :Self-heating substances and mixtures, Self-react. :Self-reactive substances and mixtures, Skin Corr. :Skin corrosion, Skin Irrit. :Skin irritation, Skin Sens. :Skin sensitization, STOT RE :Specific target organ toxicity – Repeated exposure, STOT SE :Specific target organ toxicity – Single exposure, Water-react. :Substances and mixtures which, in contact with water emit flammable gases

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

skin corrosion/irritation	No information available
Serious eye damage/eye irritation	No information available
Respiratory or skin sensitisation	No information available
Germ Cell Mutagenicity	No information available
Carcinogenicity	No information available
Reproductive Toxicity	No information available
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Aspiration Hazard	No information available

**11.2. Information on other hazards**

**11.2.1. Endocrine disrupting properties**

Endocrine disrupting properties No information available

**11.2.2. Other information**

Other adverse effects No information available

**SECTION 12: Ecological information**

**12.1. Toxicity**

Unknown aquatic toxicity 0.9% of the mixture consists of component(s) of unknown hazards to the aquatic environment

**12.2. Persistence and degradability**

Persistence and degradability No information available

**12.3. Bioaccumulative potential**

Bioaccumulation No information available

Chemical name	Partition coefficient
Propylene carbonate	0.48

**12.4. Mobility in soil**

Mobility in soil No information available



## 12.5. Results of PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Diethylene glycol diethyl ether	The substance is not PBT / vPvB
Propylene carbonate	The substance is not PBT / vPvB

**Other information** No information available

## 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available

## 12.7. Other adverse effects

**Other adverse effects** No information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from Residues/Unused Products** Should not be released into the environment  
Disposal should be in accordance with applicable regional, national and local laws and regulations

**Contaminated packaging** Improper disposal or reuse of this container may be dangerous and illegal

**Other information** Store in a tightly sealed drum to prevent the spillage of the content

## SECTION 14: Transport information

Containers/vessels must be leakage-free. Loading must be done to prevent containers from falling, dropping down and being damaged  
Take necessary steps to prevent collapse

**UN number** not applicable  
**Packing group** not applicable  
**ERG Code** 133  
**Proper Shipping Name** not applicable

### IMDG

**14.1 UN number** not applicable  
**14.2 Proper Shipping Name** Not regulated  
**14.3 Hazard Class** Not regulated  
**14.4 Packing group** not applicable  
**14.6 Special Provisions** None  
**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code** No information available

### RID

**14.1 UN number** not applicable  
**14.2 Proper Shipping Name** Not regulated  
**14.3 Hazard Class** Not regulated  
**14.4 Packing group** not applicable  
**14.5 Environmental hazard** Not applicable

14.6 Special Provisions None

**ADR**

14.1 UN number not applicable  
 14.2 Proper Shipping Name Not regulated  
 14.3 Hazard Class Not regulated  
 14.4 Packing group not applicable  
 14.5 Environmental hazard Not applicable  
 14.6 Special Provisions None

**ICAO (air)**

14.1 UN number not applicable  
 14.2 Proper Shipping Name Not regulated  
 14.3 Hazard Class Not regulated  
 14.4 Packing group not applicable  
 14.5 Environmental hazard Not applicable  
 14.6 Special Provisions None

**IATA**

14.1 UN number not applicable  
 14.2 Proper Shipping Name Not regulated  
 14.3 Hazard Class Not regulated  
 14.4 Packing group not applicable  
 14.5 Environmental hazard Not applicable  
 14.6 Special Provisions None

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Chemical name	CAS No	French RG number	Seveso III Directive
Diethylene glycol diethyl ether	112-36-7	RG 84	No information available
Propylene carbonate	108-32-7	-	No information available

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorisations and/or restrictions on use: This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**15.2. Chemical safety assessment**

Chemical Safety Report No information available

**SECTION 16: Other information**

**Full text of H-Statements referred to under section 3**

H319 - Causes serious eye irritation

**Classification procedure**

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

**Key literature references and sources for data** LOLI Database (ChemADVISOR, Inc.)

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**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, Regulation No. 2020/878**

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**