

### 1. Identification of the Substance/Preparation and of the Company/Undertaking

#### Product Identifier

**Product name** INK BOTTLE,CL,1000ML

#### Other means of identification

**Product code** T49V0  
**Single Substance or Mixture** mixture  
**UN number** Not applicable  
**Synonyms** None

#### Recommended use of the chemical and restrictions on use

**Recommended Use** Ink jet ink (solvent-based)  
**Uses advised against** No information available

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

Company Name	Importer / Supplier
SEIKO EPSON CORPORATION 80 Harashinden, Hirooka, Shiojiri-shi, Nagano-ken, 399-0785 JAPAN +81-263-52-2552	-

**Emergency telephone** -

### 2. Hazards Identification

#### Classification

Serious eye damage/eye irritation	Category 2A
Flammable Liquids	Category 4

#### Label Elements

#### EMERGENCY OVERVIEW

##### WARNING

Causes serious eye irritation  
Combustible liquid

**Symbols/Pictograms**



**appearance** No information available      **Physical state** liquid      **ODR** slight odor

**Precautionary Statements - Prevention**

Wash hands thoroughly after handling  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Wear protective gloves/protective clothing/eye protection/face protection  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention  
 In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

**OTHER INFORMATION**

- 91.0% of the mixture consists of ingredient(s) of unknown toxicity

### 3. Composition/information on Ingredients

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

Chemical name	CAS No	weight-%	Trade secret	EC No
Diethylene glycol diethyl ether	112-36-7	90-100	*	203-963-7
Propylene carbonate	108-32-7	5-10	*	203-572-1

### 4. First aid measures

**FIRST AID MEASURES**

**General advice** Do not breathe dust/fume/gas/mist/vapors/spray  
 Do not get in eyes, on skin, or on clothing

**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

**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

**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

**INGESTION**

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

**Most important symptoms and effects, both acute and delayed****Indication of any immediate medical attention and special treatment needed**

## 5. Fire-fighting measures

**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

**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

**Flammable properties**

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

**Special Extinguishing Media**

Cool container with water spray

**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

## 6. Accidental release measures

**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 vapors  
In the case of vapor 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

**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

**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

## 7. Handling and Storage

**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 diarrhea  
Do not breathe dust/fume/gas/mist/vapors/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

**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 oxidizing agents  
Store locked up  
The product shall be stored in the original containers/vessels

## 8. Exposure Controls/Personal Protection

**Control parameters****Exposure guidelines**

No information available

**Appropriate engineering controls**

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

**Individual protection measures, such as personal protective equipment**

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

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

**Hand protection**                              Wear protective gloves

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

**9. Physical and Chemical Properties**

**Information on basic physical and chemical properties**

<p><b>Physical state</b>  <b>appearance</b>  <b>color</b></p>	<p>liquid                  No information available                  clear</p>	<p><b>ODR</b>  <b>odor threshold</b></p>	<p>slight odor                  No information available</p>
<p><b><u>Property</u></b>                  pH  <b>Melting point/freezing point</b>  <b>Boiling point/boiling range</b>  <b>Flash Point</b>  <b>Evaporation Rate</b>  <b>Combustibility</b>  <b>Flammability Limits in Air</b>                      <b>Upper flammability limits</b>                      <b>Lower Flammability Limit</b>  <b>vapor pressure</b>  <b>Vapor density</b>  <b>Specific gravity</b>  <b>solubility(ies)</b>                      <b>Water solubility</b>                      <b>Organic Solvent Solubility</b>  <b>Partition coefficient</b>  <b>Autoignition temperature</b>  <b>decomposition temperature</b>  <b>Kinematic viscosity</b></p>	<p><b><u>Values</u></b>                  Not applicable                  no data available                  no data available                  ≥70°C                  no data available                  no data available                  no data available                  no data available                  no data available                  no data available                  0.9-1.1                  Soluble in water                  soluble in organic solvents                  no data available                  no data available                  no data available                  no data available</p>	<p><b><u>Remarks</u></b>    <b><u>Flash point measuring method</u></b></p> <p>No information available                  Seta Closed Cup                  No information available                  No information available                  No information available                  No information available                  No information available                  No information available                  No information available                  No information available                  No information available</p>	

Chemical name	Boiling point °C	density	Vapor pressure	Vapor 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

## 10. Stability and Reactivity

### reactivity

#### Chemical stability

**stability** Stable under normal conditions  
Heating may cause an explosion

#### Possibility of hazardous reactions

#### Conditions to Avoid

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

#### Incompatible Materials

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

#### Hazardous decomposition products

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

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

## 11. Toxicological Information

### Information on likely routes of exposure

**Product Information** no data available

**inhalation** Reference to other sections; 4  
**Eye Contact** Reference to other sections; 4  
**Skin contact** Reference to other sections; 4  
**INGESTION** Reference to other sections; 4

Chemical name	Oral LD50	dermal LD50	Inhalation LC50	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP] ANNEX VI Table3.1 / Other	Japan GHS Classification / Other
Diethylene glycol diethyl ether	-	-	-	-	Eye Irrit. 2A (H319)	Eye Irrit. 2A Flam. Liq. 4
Propylene carbonate	29000 mg/kg ( Rat )	> 20 mL/kg ( Rabbit )	-	Xi; R36	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

**Information on toxicological effects**

**Symptoms** No information available

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

**sensitization** 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

**Numerical measures of toxicity - Product Information**

**Unknown acute toxicity** 91.0% of the mixture consists of ingredient(s) of unknown toxicity

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

**ATEmix (oral)** 29000 mg/kg

**ATEmix (dermal)** 24080 mg/kg

## 12. Ecological Information

**ecotoxicity**

100 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Persistence and degradability** No information available

**Bioaccumulation** No information available

Chemical name	Partition coefficient
Propylene carbonate	0.48

**Other adverse effects** No information available

## 13. Disposal Considerations

### Waste treatment methods

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

**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

**OTHER INFORMATION** Store in a tightly sealed drum to prevent the spillage of the content

## 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

**DOT** Not regulated  
**UN number** Not applicable  
**Packing group** Not applicable

**TDG** Not regulated  
**UN number** Not applicable  
**Packing group** Not applicable

**MEX** Not regulated  
**UN number** Not applicable  
**Packing group** Not applicable

**ICAO (air)** Not regulated  
**UN number** Not applicable  
**Packing group** Not applicable

**IATA** Not regulated  
**UN number** Not applicable  
**Packing group** Not applicable

**IMDG** Not regulated  
**UN number** Not applicable  
**Packing group** Not applicable

**RID** Not regulated  
**UN number** Not applicable  
**Packing group** Not applicable

**ADR** Not regulated  
**UN number** Not applicable  
**Packing group** Not applicable

**ADN** Not regulated  
**UN number** Not applicable  
**Packing group** Not applicable

## 15. Regulatory information

### International Inventories

#### TSCA

#### TSCA SNUR's Component Information

Component	U.S. - TSCA (Toxic Substances Control Act) - Section 5(a)(2) - Chemicals with Significant New Use Rules (SNURs)
Diethylene glycol diethyl ether 112-36-7 ( 90-100 )	40 CFR 721.10229

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No	weight-%	SARA 313 - Threshold Values %
Diethylene glycol diethyl ether	112-36-7	90-100	1.0
Propylene carbonate	108-32-7	5-10	-

### SARA 311/312 Hazard Categories

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	Yes
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

#### CWA (Clean Water Act)

Does not apply

Chemical name	CAS No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Diethylene glycol diethyl ether	112-36-7	-	-	-	-



T49V0\_12

Revision date 17-Jul-2024 (DD-MMM-YYYY)

Propylene carbonate	108-32-7	-	-	-	-
---------------------	----------	---	---	---	---

**CERCLA**

Does not apply

Chemical name	CAS No	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Diethylene glycol diethyl ether	112-36-7	-	-	-
Propylene carbonate	108-32-7	-	-	-

**US State Regulations****California Proposition 65**

Does not apply

Chemical name	CAS No	California Proposition 65
Diethylene glycol diethyl ether	112-36-7	-
Propylene carbonate	108-32-7	-

**U.S. State Right-to-Know Regulations****US State Regulations**

Chemical name	CAS No	New Jersey	Massachusetts	Pennsylvania
Diethylene glycol diethyl ether	112-36-7	X	-	X
Propylene carbonate	108-32-7	-	-	-

**U.S. EPA Label information**

EPA Pesticide registration number Not applicable

**16. Other information**

<b>NFPA</b>	Health Hazards 2	flammability 2	Instability 1	Physical and chemical properties -
<b>HMIS</b>	Health Hazards 2	flammability 2	Physical Hazards 1	PERSONAL PROTECTION H

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

Revision date 17-Jul-2024

Revision note

**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**