

# 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 | Before: 2026.04           | 6.0      | Page 2 – 12  |
|                           | In and after: 2026.04     | 7.0      | Page 13 – 22 |

## Where to find the best-before date:

Ink Cartridge Packaging

Pattern.1



Best-before date

Pattern.2



Best-before date

Pattern.3



Best-before date

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

1.1. Product identifier

Mixture identification:

Trade name: INK CARTRIDGE,Y T8584  
(Best-before date: Before 2026.04)  
Trade code: C13T858400

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

Recommended use:

Ink for inkjet printing

1.3. Details of the supplier of the safety data sheet

Company:

EPSON EUROPE B.V.  
Azie building, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam  
Zuidoost The Netherlands  
Phone number: +31-20-314-5000

Competent person responsible for the safety data sheet:

chemicals@epson.eu

Date: 20/10/2022

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.

Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.

Ireland; +353 (01) 809 2566 or +353 (01) 809 2166  
Malta; 2545 0000 or 21224071

**SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

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

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

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

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

EUH210 Safety data sheet available on request.

EUH208 Contains 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.

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

EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

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### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

Other Hazards:

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. Number                                                                                | Classification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 65% ~ 80%       | Water                                                                             | CAS: 7732-18-5<br>EC: 231-791-2                                                              | The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 5% ~ 7%         | Glycerol                                                                          | CAS: 56-81-5<br>EC: 200-289-5                                                                | The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1% ~ 3%         | 2-[2-(2-butoxyethoxy)ethoxy]ethanol;<br>TEGBE; triethylene glycol monobutyl ether | Index number: 603-183-00-0<br>CAS: 143-22-6<br>EC: 205-592-6<br>REACH No.: 01-21194751 07-38 |  3.3/1 Eye Dam. 1 H318<br>Specific Concentration Limits:<br>C $\geq 30\%$ : Eye Dam. 1 H318<br>20% $\leq$ C < 30%: Eye Irrit. 2 H319                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1% ~ 3%         | 2-Pyrrolidone                                                                     | CAS: 616-45-5<br>EC: 210-483-1<br>REACH No.: 01-21194754 71-37                               |  3.3/2 Eye Irrit. 2 H319<br> 3.7/1B Repr. 1B H360<br>Specific Concentration Limits:<br>C $\geq 3\%$ : Repr. 1B H360                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1% ~ 3%         | Triethanolamine                                                                   | CAS: 102-71-6<br>EC: 203-049-8<br>REACH No.: 01-21194864 82-31                               | 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: 126-86-3<br>EC: 204-809-1<br>REACH No.: 01-21199543 90-39                               |  3.3/1 Eye Dam. 1 H318<br> 3.4.2/1B Skin Sens. 1B H317<br>4.1/C3 Aquatic Chronic 3 H412                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 0.0015% ~ 0.05% | 1,2-benzisothiazol-3(2H)-one;<br>1,2-benzisothiazolin-3-one                       | Index number: 613-088-00-6<br>CAS: 2634-33-5<br>EC: 220-120-9                                |  3.1/4/Oral Acute Tox. 4 H302<br> 3.2/2 Skin Irrit. 2 H315<br> 3.3/1 Eye Dam. 1 H318<br> 3.4.2/1 Skin Sens. 1 H317<br> 4.1/A1 Aquatic Acute 1 H400<br>Specific Concentration Limits:<br>0.005% $\leq$ C < 0.05%: EUH208<br>C $\geq 0.05\%$ : Skin Sens. 1 H317 |
| 0.0015% ~ 0.05% | 2-methylisothiazol-3(2H)-one                                                      | Index number: 613-326-00-9<br>CAS: 2682-20-4<br>EC: 220-239-6                                |  3.1/2/Inhal Acute Tox. 2 H330<br> 3.1/3/Dermal Acute Tox. 3 H311<br> 3.1/3/Oral Acute Tox. 3 H301<br> 3.2/1B Skin Corr. 1B H314                                                                                                                                                                                                                   |

|  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  |  3.3/1 Eye Dam. 1 H318<br> 3.4.2/1A Skin Sens. 1A H317<br> 4.1/A1 Aquatic Acute 1 H400<br>M=10.<br> 4.1/C1 Aquatic Chronic 1<br>H410 M=1.<br>EUH071<br>Specific Concentration Limits:<br>C >= 0.0015%: Skin Sens. 1A<br>H317 |
|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 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 (CO<sub>2</sub>).

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/m<sup>3</sup> - Notes: Respirable dust

- OEL Type: OSHA - TWA: 15 mg/m<sup>3</sup> - Notes: Total dust

Triethanolamine - CAS: 102-71-6

- OEL Type: ACGIH - TWA(8h): 5 mg/m<sup>3</sup>

DNEL Exposure Limit Values

2-Pyrrolidone - CAS: 616-45-5

Worker Industry: 13.23 mg/m<sup>3</sup> - Worker Professional: 1.985 mg/m<sup>3</sup> - 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/m<sup>3</sup> - Consumer: 1.25 mg/m<sup>3</sup> - 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.

#### 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:                                                   | Yellow                                                                   |
| 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:                                              | Not detected until 99.5 °C / 211 ° F<br>(closed cup method, ASTM D 3278) |
| Auto-ignition temperature:                                | No data available                                                        |
| Decomposition temperature:                                | No data available                                                        |
| pH:                                                       | 8.8 ~ 9.8 at 20 °C                                                       |
| Kinematic viscosity:                                      | < 5 mm <sup>2</sup> /s at 20 °C                                          |
| Solubility in water:                                      | Complete                                                                 |
| Vapour pressure:                                          | No data available                                                        |

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|                                  |                                     |
|----------------------------------|-------------------------------------|
| Density and/or relative density: | 1.06 at 20 °C                       |
| Relative vapour density:         | Specific gravity (relative density) |
| Particle characteristics:        | No data available                   |
|                                  | Not Relevant                        |

9.2. Other information  
No other relevant information

### 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:
  - d) respiratory or skin sensitisation:  
Test: Skin Sensitisation - Based on available data, the classification criteria are not met
  - e) germ cell mutagenicity:  
Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli  
Negative
  - f) carcinogenicity:  
Does not contain carcinogens (Ref. 1)
- 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., 1969 Vol. -, 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,
  - 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, 1982 Vol. -, 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

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  $\geq 0.1\%$

**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  
No endocrine disruptor substances present in concentration  $\geq 0.1\%$
- 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.

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.

H360 May damage fertility or the unborn child.

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.

EUH208 Contains (name of sensitising substance). May produce an allergic reaction.

H330 Fatal if inhaled.

H311 Toxic in contact with skin.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

| Hazard class and hazard category | Code        | Description                             |
|----------------------------------|-------------|-----------------------------------------|
| Acute Tox. 2                     | 3.1/2/Inhal | Acute toxicity (inhalation), Category 2 |

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|                   |              |                                                |
|-------------------|--------------|------------------------------------------------|
| Acute Tox. 3      | 3.1/3/Dermal | Acute toxicity (dermal), Category 3            |
| Acute Tox. 3      | 3.1/3/Oral   | Acute toxicity (oral), Category 3              |
| Acute Tox. 4      | 3.1/4/Oral   | Acute toxicity (oral), Category 4              |
| Skin Corr. 1B     | 3.2/1B       | Skin corrosion, Category 1B                    |
| Skin Irrit. 2     | 3.2/2        | Skin irritation, Category 2                    |
| Eye Dam. 1        | 3.3/1        | Serious eye damage, Category 1                 |
| Eye Irrit. 2      | 3.3/2        | Eye irritation, Category 2                     |
| Skin Sens. 1      | 3.4.2/1      | Skin Sensitisation, Category 1                 |
| Skin Sens. 1A     | 3.4.2/1A     | Skin Sensitisation, Category 1A                |
| Skin Sens. 1B     | 3.4.2/1B     | Skin Sensitisation, Category 1B                |
| Repr. 1B          | 3.7/1B       | Reproductive toxicity, Category 1B             |
| Aquatic Acute 1   | 4.1/A1       | Acute aquatic hazard, category 1               |
| Aquatic Chronic 1 | 4.1/C1       | Chronic (long term) aquatic hazard, category 1 |
| 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:

ECDDIN - 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 Society).              |
| CLP:        | 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:     | 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.                                                          |

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

#### 1.1. Product identifier

Mixture identification:

Trade name: INK CARTRIDGE,Y T8584  
(Best-before date: In and after 2026.04)  
Trade code: C13T858400

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

Recommended use:

Ink for inkjet printing

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

Company:

EPSON EUROPE B.V.  
Azie building, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam  
Zuidoost The Netherlands  
Phone number: +31-20-314-5000

Competent person responsible for the safety data sheet:

chemicals@epson.eu

Date: 02/06/2023

Revision: 7.0

#### 1.4. Emergency telephone number

Phone number: +31-20-314-5000  
United Kingdom; 01952 607111 Monday to Friday 9am to 5:30pm.  
Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.  
Ireland; +353 (01) 809 2566 or +353 (01) 809 2166  
Malta; 2545 0000 or 21224071

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

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

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

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

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

EUH210 Safety data sheet available on request.

EUH208 Contains 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.

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

EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. 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  $\geq 0.1\%$

Other Hazards:

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. Number                                                                                | Classification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 65% ~ 80%       | Water                                                                             | CAS: 7732-18-5<br>EC: 231-791-2                                                              | The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 5% ~ 7%         | Glycerol                                                                          | CAS: 56-81-5<br>EC: 200-289-5                                                                | The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1% ~ 3%         | 2-[2-(2-butoxyethoxy)ethoxy]ethanol;<br>TEGBE; triethylene glycol monobutyl ether | Index number: 603-183-00-0<br>CAS: 143-22-6<br>EC: 205-592-6<br>REACH No.: 01-21194751 07-38 |  3.3/1 Eye Dam. 1 H318<br>Specific Concentration Limits:<br>C $\geq 30\%$ : Eye Dam. 1 H318<br>20% $\leq$ C < 30%: Eye Irrit. 2 H319                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1% ~ 3%         | Triethanolamine                                                                   | CAS: 102-71-6<br>EC: 203-049-8<br>REACH No.: 01-21194864 82-31                               | 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: 126-86-3<br>EC: 204-809-1<br>REACH No.: 01-21199543 90-39                               |  3.3/1 Eye Dam. 1 H318<br> 3.4.2/1B Skin Sens. 1B H317<br>4.1/C3 Aquatic Chronic 3 H412                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 0.0015% ~ 0.05% | 1,2-benzisothiazol-3(2H)-one;<br>1,2-benzisothiazolin-3-one                       | Index number: 613-088-00-6<br>CAS: 2634-33-5<br>EC: 220-120-9                                |  3.1/4/Oral Acute Tox. 4 H302<br> 3.2/2 Skin Irrit. 2 H315<br> 3.3/1 Eye Dam. 1 H318<br> 3.4.2/1 Skin Sens. 1 H317<br> 4.1/A1 Aquatic Acute 1 H400<br>Specific Concentration Limits:<br>0.005% $\leq$ C < 0.05%: EUH208<br>C $\geq 0.05\%$ : Skin Sens. 1 H317                                                                                                                                              |
| 0.0015% ~ 0.05% | 2-methylisothiazol-3(2H)-one                                                      | Index number: 613-326-00-9<br>CAS: 2682-20-4<br>EC: 220-239-6                                |  3.1/2/Inhal Acute Tox. 2 H330<br> 3.1/3/Dermal Acute Tox. 3 H311<br> 3.1/3/Oral Acute Tox. 3 H301<br> 3.2/1B Skin Corr. 1B H314<br> 3.3/1 Eye Dam. 1 H318<br> 3.4.2/1A Skin Sens. 1A H317<br> 4.1/A1 Aquatic Acute 1 H400<br>M=10. |

|  |  |  |                                                                                                                                                                                                             |
|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  |  4.1/C1 Aquatic Chronic 1<br>H410 M=1.<br>EUH071<br>Specific Concentration Limits:<br>C >= 0.0015%: Skin Sens. 1A<br>H317 |
|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 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.  
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/m<sup>3</sup> - Notes: Respirable dust  
- OEL Type: OSHA - TWA: 15 mg/m<sup>3</sup> - Notes: Total dust  
Triethanolamine - CAS: 102-71-6  
- OEL Type: ACGIH - TWA(8h): 5 mg/m<sup>3</sup>  
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/m<sup>3</sup> - Consumer: 1.25 mg/m<sup>3</sup> - 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:                                                   | Yellow                              |
| 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:                                              | Does not flash.                     |
| Auto-ignition temperature:                                | No data available                   |
| Decomposition temperature:                                | No data available                   |
| pH:                                                       | 8.8 ~ 9.8 at 20 °C                  |
| Kinematic viscosity:                                      | < 5 mm <sup>2</sup> /s at 20 °C     |
| Solubility in water:                                      | Complete                            |
| Vapour pressure:                                          | No data available                   |
| Density and/or relative density:                          | 1.06 at 20 °C                       |
|                                                           | Specific gravity (relative density) |
| Relative vapour density:                                  | No data available                   |
| Particle characteristics:                                 | Not Relevant                        |
- 9.2. Other information  
No other relevant information

### 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:

- d) respiratory or skin sensitisation:  
Test: Skin Sensitisation - Based on available data, the classification criteria are not met
- e) germ cell mutagenicity:  
Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli  
Negative
- f) carcinogenicity:  
Does not contain carcinogens (Ref. 1)
- 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.

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

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  $\geq 0.1\%$

### 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:

2,4,7,9-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  $\geq 0.1\%$

12.7. Other adverse effects

None

### SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

### SECTION 14: Transport information

14.1. UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

No data available

14.3. Transport hazard class(es)

No data available

- 14.4. Packing group  
No data available
- 14.5. Environmental hazards  
No data available
- 14.6. Special precautions for user  
No data available
- 14.7. Maritime transport in bulk according to IMO instruments  
No data available

### SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) n. 2020/878  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)  
Regulation (EU) n. 2020/217 (ATP 14 CLP)  
Regulation (EU) n. 2020/1182 (ATP 15 CLP)  
Regulation (EU) n. 2021/643 (ATP 16 CLP)  
Regulation (EU) n. 2021/849 (ATP 17 CLP)  
Regulation (EU) n. 2022/692 (ATP 18 CLP)

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.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H400 Very toxic to aquatic life.  
EUH208 Contains (name of sensitising substance). May produce an allergic reaction.  
H330 Fatal if inhaled.  
H311 Toxic in contact with skin.  
H301 Toxic if swallowed.  
H314 Causes severe skin burns and eye damage.  
H410 Very toxic to aquatic life with long lasting effects.  
EUH071 Corrosive to the respiratory tract.

| Hazard class and hazard category | Code         | Description                                    |
|----------------------------------|--------------|------------------------------------------------|
| Acute Tox. 2                     | 3.1/2/Inhal  | Acute toxicity (inhalation), Category 2        |
| Acute Tox. 3                     | 3.1/3/Dermal | Acute toxicity (dermal), Category 3            |
| Acute Tox. 3                     | 3.1/3/Oral   | Acute toxicity (oral), Category 3              |
| Acute Tox. 4                     | 3.1/4/Oral   | Acute toxicity (oral), Category 4              |
| Skin Corr. 1B                    | 3.2/1B       | Skin corrosion, Category 1B                    |
| Skin Irrit. 2                    | 3.2/2        | Skin irritation, Category 2                    |
| Eye Dam. 1                       | 3.3/1        | Serious eye damage, Category 1                 |
| Eye Irrit. 2                     | 3.3/2        | Eye irritation, Category 2                     |
| Skin Sens. 1                     | 3.4.2/1      | Skin Sensitisation, Category 1                 |
| Skin Sens. 1A                    | 3.4.2/1A     | Skin Sensitisation, Category 1A                |
| Skin Sens. 1B                    | 3.4.2/1B     | Skin Sensitisation, Category 1B                |
| Aquatic Acute 1                  | 4.1/A1       | Acute aquatic hazard, category 1               |
| Aquatic Chronic 1                | 4.1/C1       | Chronic (long term) 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 3: Composition/information on ingredients  
SECTION 8: Exposure controls/personal protection  
SECTION 9: Physical and chemical properties  
SECTION 11: Toxicological information  
SECTION 12: Ecological 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 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:     | 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:       | 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.                                                           |