

| SECTION 1: Identification of the substance/mixture and of the company/undertaking |   |  |
|---|---|--|
| 1.1. Product identifier   |   |  |
| Mixture identification:<br>Trade name:  | lok T46D4   |  |
| Trade fiame.  | Ink, T46D4  |  |
| UFI:  | 94RR-XK05-7J0P-D889   |  |
| 1.2. Relevant identified uses of the  | substance or mixture and uses advised against                 |  |
| Recommended use:  |   |  |
| Ink for ink   | sjet printing   |  |
| <ol> <li>1.3. Details of the supplier of the sa</li> </ol>                        | ifety data sheet  |  |
| Company:  |   |  |
| EPSON E   | EUROPE B.V.   |  |
| Azie build  | ling, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam          |  |
| Zuidoost  | The Netherlands   |  |
| Phone nu  | mber: +31-20-314-5000   |  |
| Competent person responsible for the safety data sheet:                           |   |  |
| chemicals@epson.eu  |   |  |
| Date:   | 19/03/2024  |  |
| Revision:   | 8.0   |  |
| 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)

Warning, Skin Sens. 1, May cause an allergic skin reaction.

Adverse physicochemical, human health and environmental effects: No other hazards

2.2. Label elements

Hazard pictograms:



Warning Hazard statements:

H317 May cause an allergic skin reaction.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P321 Specific treatment (see ... On this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with applicable regulations.

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Special Provisions:

None

Contains

C.I. Disperse Yellow 54

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

Special provisions according to Annex XVII of REACH and subsequent amendments: None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1% Other Hazards: No other hazards

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

- 3.1. Substances
- No
- 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty                | Name  | Ident. Numb                     | ber                                    | Classification  |
|--------------------|---|---------------------------------|--|---|
| 50% ~<br>65%       | Water   | CAS:<br>EC:                     | 7732-18-5<br>231-791-2                 | The product is not classified as<br>dangerous according to<br>Regulation EC 1272/2008 (CLP).  |
| 20% ~<br>25%       | Glycerol  | CAS:<br>EC:                     | 56-81-5<br>200-289-5                   | The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).  |
| 1% ~ 3%            | C.I. Disperse Yellow<br>54  | CAS:<br>EC:                     | 17772-51-9<br>241-753-7                | 13.4.2/1B Skin Sens. 1B H317  |
| 0.0015%<br>~ 0.05% | 1,2-benzisothiazol-3(2<br>H)-one;<br>1,2-benzisothiazolin-3-<br>one | Index<br>number:<br>CAS:<br>EC: | 613-088-00-6<br>2634-33-5<br>220-120-9 | <ul> <li>3.1/4/Oral Acute Tox. 4 H302</li> <li>3.2/2 Skin Irrit. 2 H315</li> <li>3.3/1 Eye Dam. 1 H318</li> <li>3.4.2/1 Skin Sens. 1 H317</li> <li>4.1/A1 Aquatic Acute 1 H400<br/>Specific Concentration Limits:<br/>0.005% &lt;= C &lt; 0.05%: EUH208<br/>C &gt;= 0.05%: Skin Sens. 1 H317</li> </ul> |

### **SECTION 4: First aid measures**

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

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:

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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
  - In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
  - 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. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. See also section 8 for recommended protective equipment. Advice on general occupational hygiene: Contamined clothing should be changed before entering eating areas. Do not eat or drink while working.

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- 7.2. Conditions for safe storage, including any incompatibilities Keep away from food, drink and feed. Incompatible materials: None in particular. Instructions as regards storage premises: Adequately ventilated premises.
- 7.3. Specific end use(s) None in particular

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

- Glycerol CAS: 56-81-5
  - OEL Type: OSHA TWA: 5 mg/m3 Notes: Respirable dust
  - OEL Type: OSHA TWA: 15 mg/m3 Notes: Total dust
  - **DNEL Exposure Limit Values**
  - No data available
  - PNEC Exposure Limit Values
  - No data available
- 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 close fitting safety goggles, don't use eye lens.

- Protection for skin:
  - Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
- Protection for hands:
  - Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
- 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: > 95 °C / 203 ° F Auto-ignition temperature: No data available Decomposition temperature: No data available at 20 °C pH: 7.5 ~ 8.7 Kinematic viscosity: No data available



Solubility in water: Vapour pressure: Relative vapour density: Particle characteristics:

9.2. Other information Viscosity: Complete No data available No data available Not Relevant

< 5 mPa·s at 20 °C

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

- 10.1. Reactivity
  - Stable under normal conditions
- 10.2. Chemical stability Stable under normal conditions
- 10.3. Possibility of hazardous reactions None
- 10.4. Conditions to avoid Stable under normal conditions.
- 10.5. Incompatible materials None in particular.
- 10.6. Hazardous decomposition products Acrolein (CAS #107-02-8); When glycerols is heated over 300°C, it will decompose into acrolein.

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

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

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.

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:

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No endocrine disruptor substances present in concentration >= 0.1%

### **SECTION 12: Ecological information**

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. Toxicological information of the product:

No data available

Toxicological information of the main substances found in the product: No data available

- 12.2. Persistence and degradability
- No data available
- 12.3. Bioaccumulative potential No data available
- 12.4. Mobility in soil
  - No data available
- 12.5. Results of PBT and vPvB assessment vPvB Substances: None - PBT Substances: None
- 12.6. Endocrine disrupting properties No endocrine disruptor substances present in concentration >= 0.1%
- 12.7. Other adverse effects None

### **SECTION 13: Disposal considerations**

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

### **SECTION 14: Transport information**

- 14.1. UN number or ID number
  - Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name No data available
- 14.3. Transport hazard class(es) No data available
- 14.4. Packing group
  - No data available
- 14.5. Environmental hazards No data available
- 14.6. Special precautions for user No data available
- 14.7. Maritime transport in bulk according to IMO instruments No data available

# SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 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) Regulation (EU) n. 2023/1434 (ATP 19 CLP) Regulation (EU) n. 2023/1435 (ATP 20 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: **Restriction 3** 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:

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

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

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

Paragraphs modified from the previous revision:

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

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SECTION 2: Hazards identification SECTION 3: Composition/information on ingredients SECTION 6: Accidental release measures SECTION 8: Exposure controls/personal protection SECTION 11: Toxicological information SECTION 15: Regulatory information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|--------------------------|
| Skin Sens. 1, H317  | Calculation method       |

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 (ÈC) 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:<br>GefStoffVO:<br>GHS: | European Inventory of Existing Commercial Chemical Substances.<br>Ordinance on Hazardous Substances, Germany.<br>Globally Harmonized System of Classification and Labeling of<br>Chemicals. |
|--------------------------------|---|
| IATA:                          | International Air Transport Association.  |
| IATA-DGR:                      | Dangerous Goods Regulation by the "International Air Transport<br>Association" (IATA).  |
| ICAO:                          | International Civil Áviation 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.  |