

| Mixture identificat | ion [.] |
|--|---|
| Trade name: | EPSON Ink cartridge T8582 |
| | uses of the substance or mixture and uses advised against |
| Recommended us | |
| | Ink for inkjet printing |
| 1.3. Details of the suppli Company: | er of the safety data sheet |
| | EPSON EUROPE B.V. |
| | Azie building, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam Zuidoost The Netherlands |
| | Phone number: +31-20-314-5000 |
| Competent persor | n responsible for the safety data sheet: |
| | chemicals@epson-europe.com |
| Date: | 24/10/2016 |
| Revision: | 1.0 |
| 1.4. Emergency telephore | ne number |
| Phone number: | +31-20-314-5000 |
| Giftnotruf Berlin; | +48 (0) 30 30686 790 |
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3.1. Substances

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No data available

3.2. Mixtures

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

| Qty | Name | Ident. Number | | Classification | |
|-----------------|--|---|---|---|--|
| 50% ~ 65% | Water | CAS: EC: | 7732-18-5 231-791-2 | The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). | |
| 5% ~ 7% | Glycerol | CAS: EC: | 56-81-5 200-289-5 | The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). | |
| 1% ~ 3% | 2-[2-(2-butoxyethoxy)et hoxy]ethanol; TEGBE; triethylene glycol monobutyl ether | Index number: CAS: EC: REACH No.: | 603-183-00-0 143-22-6 205-592-6 01-21194751 07-38 | 较 3.3/1 Eye Dam. 1 H318 | |
| 0.25% ~ 0.5% | Triethanol amine | CAS: EC: | 102-71-6 203-049-8 | The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). | |
| 0.1% ~ 0.25% | 2,4,7,9-tetramethyldec- 5-yne-4,7-diol | CAS: EC: | 126-86-3 204-809-1 | 3.3/1 Eye Dam. 1 H318 3.4.2/1B Skin Sens. 1B H317 4.1/C3 Aquatic Chronic 3 H412 | |

SECTION 4: First aid measures

- 4.1. Description of first aid measures
 - In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

- In case of Inhalation:
 - Remove casualty to fresh air and keep warm and at rest.
- 4.2. Most important symptoms and effects, both acute and delayed
 - None
- 4.3. Indication of any immediate medical attention and special treatment needed Treatment:

None

SECTION 5: Firefighting measures

- 5.1. Extinguishing media
 - 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.

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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.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

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 LTE: 5 mg/m3 Notes: PEL, as mist, respirable fraction

- OEL Type: OSHA - LTE: 15 mg/m3 - Notes: PEL, as mist, total dust

- **DNEL Exposure Limit Values**
 - No data available
- **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 2,4,7,9-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 |
| Eye protection: |
| Not needed for normal use. Anyway, operate according good working practices. |
| Protection for skin: |
| No special precaution must be adopted for normal use. |
| Protection for hands: |
| Not needed for normal use. |
| Respiratory protection: |
| Not needed for normal use. |
| Thermal Hazards: |
| None |
| Environmental exposure controls: |
| None |
| Appropriate engineering controls: |
| None |
| |

SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical

| 9.1. Information on basic physical and | d chemical propertie | | |
|--|----------------------|-------------------|---------------------|
| Appearance and colour: | Cyan Liquid | | |
| Odour: | Specific | | |
| Odour threshold: | No data available | | |
| pH: | 8.5 ~ 9.5 | at 20 °C | |
| • | No data available | | |
| Melting point / freezing point: | | ilabla | |
| Initial boiling point and boiling r | No data available | liiable | |
| Solid/gas flammability: | | No data available | |
| Upper/lower flammability or exp | | No data available | |
| Vapour density: | No data available | | |
| Flash point: | | 99.5 °C / 211 ° F | (closed cup method, |
| | ASTM D 3278) | | |
| Evaporation rate: | No data available | | |
| Vapour pressure: | No data available | | |
| Relative density: | 1.06 at 20 °C | | |
| Solubility in water: | Complete | | |
| Solubility in oil: | No data available | | |
| Partition coefficient (n-octanol/ | water): No data ava | ilable | |
| Auto-ignition temperature: | No data available | | |
| Decomposition temperature: | No data available | | |
| Viscosity: | < 5 mPa⋅s | at 20 °C | |
| Explosive properties: | No data available | | |
| Oxidizing properties: | No data available | | |
| 9.2. Other information | | | |
| Miscibility: | No data available | | |
| Fat Solubility: | No data available | | |
| Conductivity: | No data available | | |
| - | | | |

SECTION 10: Stability and reactivity

10.1. Reactivity

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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 toxicological effects Toxicological information of the mixture:

e) germ cell mutagenicity:

Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli Negative

Toxicological information of the main substances found in the mixture:

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. - Notes: BEHAVIORAL: HEADACHE

GASTROINTESTINAL: NAUSEA OR VOMITING

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,

Triethanol amine - 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. - Notes: GASTROINTESTINAL: "HYPERMOTILITY, DIARRHEA" KIDNEY, URETER, AND BLADDER: OTHER CHANGES

BEHAVIORAL: CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD 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 - Notes: OECD TG No.402

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Mild irritant - Notes: OECD TG No.404 c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Highly irritating - Notes: EPA OTS 798.4500



d) respiratory or skin sensitisation:

Test: Skin Sensitisation - Route: LLNA - Species: Mouse Sensitiser - Notes: OECD TG No.429

e) germ cell mutagenicity:

Test: Mutagenesis - Species: Salmonella Typhimurium Negative - Notes: OECD TG No.471

If not differently specified, the information required in Regulation 453/2010/EC 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.

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. 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 - Notes: OECD TG No.203 Endpoint: EC50 - Species: Daphnia = 88 mg/l - Duration h: 48 - Notes: OECD TG No.202

Endpoint: EC50 - Species: Algae = 15 mg/l - Duration h: 72 - Notes: OECD TG No.201 c) Bacteria toxicity:

Endpoint: EC50 - Species: activated sludge = mg/l - Notes: OECD TG No.209

- 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. 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
 - 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

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- 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. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 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) 2015/830 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) 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: No restriction. Where applicable, refer to the following regulatory provisions : Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments. Regulation (EC) nr 648/2004 (detergents). 1999/13/EC (VOC directive) Provisions related to directives 82/501/EC(Seveso), 96/82/EC(Seveso II): No data available

15.2. Chemical safety assessment No

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

This safety data sheet has been completely updated in compliance to Regulation 2015/830. 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

CCNL - Appendix 1

Insert further consulted bibliography



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. |
|------------------------|---|
| CAS: | Chemical Abstracts Service (division of the American Chemical |
| CLP: | Society). Classification, Labeling, Packaging. |
| DNEL: | Derived No Effect Level. |
| EINECS: GefStoffVO: | European Inventory of Existing Commercial Chemical Substances. Ordinance on Hazardous Substances, Germany. |
| GHS: | Globally Harmonized System of Classification and Labeling of Chemicals. |
| IATA: | International Air Transport Association. |
| IATA-DGR: | Dangerous Goods Regulation by the "International Air Transport Association" (IATA). |
| ICAO: | International Civil Áviation Organization. |
| 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. |
| LTE: | Long-term exposure. |
| PNEC: | Predicted No Effect Concentration. |
| RID: | Regulation Concerning the International Transport of Dangerous Goods by Rail. |
| STE: | Short-term exposure. |
| STEL: | Short Term Exposure limit. |
| STOT: | Specific Target Organ Toxicity. |
| TLV: | Threshold Limiting Value. |
| TWATLV: | Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard). |
| WGK: | German Water Hazard Class. |