

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Mixture identification: Trade name: T8694 C13T869440 Trade code: 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 20/10/2022 Date: Revision: 4.0 1.4. Emergency telephone number Phone number: +31-20-314-5000 Monday to Friday 9am to 5:30pm. United Kingdom: 01952 607111 Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department. +353 (01) 809 2566 or +353 (01) 809 2166 Ireland: 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 2,4,7,9-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 >= 0.1%

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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	er	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	number: CAS: EC:	603-183-00-0 143-22-6 205-592-6 01-21194751 07-38	<ul> <li>3.3/1 Eye Dam. 1 H318</li> <li>Specific Concentration Limits:</li> <li>C &gt;= 30%: Eye Dam. 1 H318</li> <li>20% &lt;= C &lt; 30%: Eye Irrit. 2 H319</li> </ul>
1% ~ 3%	2-Pyrrolidone	CAS: EC: REACH No.:	616-45-5 210-483-1 01-21194754 71-37	<ul> <li>3.3/2 Eye Irrit. 2 H319</li> <li>3.7/1B Repr. 1B H360</li> <li>Specific Concentration Limits: C &gt;= 3%: Repr. 1B H360</li> </ul>
1% ~ 3%	Triethanolamine	CAS: EC: REACH No.:	102-71-6 203-049-8 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: EC: REACH No.:	126-86-3 204-809-1 01-21199543 90-39	<ul> <li>3.3/1 Eye Dam. 1 H318</li> <li>3.4.2/1B Skin Sens. 1B H317</li> <li>4.1/C3 Aquatic Chronic 3 H412</li> </ul>
0.0015% ~ 0.05%	1,2-benzisothiazol-3(2 H)-one; 1,2-benzisothiazolin-3- one	Index number: CAS: EC:	613-088-00-6 2634-33-5 220-120-9	<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 Specific Concentration Limits:</li> <li>0.005% &lt;= C &lt; 0.05%: EUH208 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:
    - 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.

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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
- 7.2. Conditions for safe storage, including any incompating Keep away from food, drink and feed.
   Incompatible materials:
   None in particular.
   Instructions as regards storage premises:

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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 Triethanolamine - CAS: 102-71-6 - OEL Type: ACGIH - TWA(8h): 5 mg/m3 **DNEL Exposure Limit Values** 2-Pyrrolidone - CAS: 616-45-5 Worker Industry: 13.23 mg/m3 - Worker Professional: 1.985 mg/m3 - 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/m3 - Consumer: 1.25 mg/m3 - 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

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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: Colour: Odour: Melting point / freezing point: Boiling point or initial boiling point and boiling range: No data available Flammability: Non-flammable
  - Flammability: Lower and upper explosion limit: Flash point: Auto-ignition temperature: Decomposition temperature: pH: Kinematic viscosity: Solubility in water: Vapour pressure: Relative vapour density: Particle characteristics:
- 9.2. Other information Viscosity:

< 5 mPa·s at 20 °C

No data available > 99.5 °C / 211 ° F

No data available

Not Relevant

8.6 ~ 9.6

Soluble

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 None.

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

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<ul> <li>e) germ cell mutagenicity: Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli Negative</li> <li>f) carcinogenicity: Does not contain carcinogens (Ref. 1)</li> <li>Toxicological information of the main substances found in the product: Glycerol - CAS: 56-81-5</li> <li>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</li> <li>Test: LDL0 - 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.</li> <li>2-[2-(2-butox, -, Pg. 280.</li> <li>Pyrolidouen - CAS: 1616-45.5</li> <li>a acute toxicity: Test: LD50 - Route: Oral - Species: Rabbit Non-irritant</li> <li>c) respiratory or skin semsitisation - Test: Skin Sensitisation - Route: LLNA - Species: Mouse Negative</li> <li>e) germ cell mutagenicity: Test: L</li></ul>	Toxic	cological information of the product:
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: LD50 - Route: Oral - Species: Human = 1428 mg/kg - Source: Toxicology of Drugs and Chemicals, "Delothmann, W.B., New York, Academic Press, Inc., 1969Vol, Pg. 288, 1969. 2-[2-(2-butxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether - CAS: 143-22-6 a) acute toxicity: Test: LD50 - Route: Oral - 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: Skin Bensitisation - Route: LLNA - Species: Mouse Negative e) germ cell mutagenicity: Test: LD50 - Route: Oral - Species: Salboit Moderate irritant - Based on available data, the classification criteria are not met d) respiratory or skin sensitisation: Test: Skin Sensitisation: Test: Skin Sensitisation: Test: Skin Sensitisation - Route: LLNA - Species: Mouse Negative e) germ cell mutagenicity: 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. g, 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-tetramethydlec-5-nye-4,7-cliol - CAS: 126-86		
<ul> <li>f) carcinogenicity: Does not contain carcinogens (Ref. 1)</li> <li>Toxicological information of the main substances found in the product: Glycerol - CAS: 56-81-5</li> <li>a) caute toxicity: Test: LDE0 - 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," Detchmann, W.B., New York, Academic Press, Inc., 1969Vol, Pg. 288, 1960.</li> <li>2:[2:(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether - CAS: 143-22-6</li> <li>a) acute toxicity: Test: LD50 - Route: Dermal - Species: Rabbit = 3.54 ml/kg - Source: American Industrial Hygiene Association Journal. Vol. 23, Pg. 95, 1962.</li> <li>Test: LD50 - Route: Oral - Species: Rat &gt; 5300 mg/kg - Source: Office of Toxic Substances Report. Vol. OTS,</li> <li>2:Pytrolidone - CAS: 616-45-5</li> <li>a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat &gt; 2000 mg/kg Test: LD50 - Route: Oral - Species: Rabbit &gt; 2000 mg/kg</li> <li>b) skin corrosion/irritation: Test: Sub - Route: Oral - Species: Rabbit &gt; 2000 mg/kg</li> <li>b) skin corrosion/irritation: Test: Stin Irritant - Species: Rabbit Non-irritant</li> <li>c) serious eye damage/irritation: Test: Stin Sensitisation - Route: LLNA - Species: Mouse Negative</li> <li>e) germ cell mutagenicity: Test: LD50 - Route: Oral - Species: Guinea pig = 2200 mg/kg - Source: "Toxicometric Parameters of Industrial Toxic Chemicals Under Single Exposure," "Toxicometric Parameters of Industrial Toxic Chemicals Under Single Exposure, "Toxicometric Parameters of Industrial Toxic Chemicals Under Single Exposure," "Toxicometric Parameters of Industrial Toxic Chemicals Under Single Exposure, "Toxicometric Parameters of Industrial Toxic Chemicals Under Single Exposure," "Toxicometric Parameters of Industrial Toxic Chemicals Under Single Exposure, "Toxicometric Parameters of Industrial Toxic Chemicals Under Single Exposure," "Toxicometric Par</li></ul>		
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<ul> <li>Toxicological information of the main substances found in the product: Glycerol - CAS: 56-81-5</li> <li>a) acute toxicity: Test: LDS0 - 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.</li> <li>2.[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether - CAS: 143-22-6</li> <li>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,</li> <li>2.Pyrrolidone - CAS: 616-45-5</li> <li>a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat &gt; 2000 mg/kg Test: LD50 - Route: Oral - Species: Rat &gt; 2000 mg/kg</li> <li>b) skin corrosion/irritation: Test: Skin Inritant - Species: Rat &gt; 2000 mg/kg</li> <li>b) skin corrosion/irritation: Test: Skin Inritant - Species: Rabbit Non-irritant</li> <li>c) serious eye damage/irritation: Test: Skin Sensitisation - Route: LLNA - Species: Mouse Negative</li> <li>e) gern cell mutagenicity: Test: LSio - Route: Oral - Species: Salmonella Typhimurium and Escherichia coli Negative</li> <li>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.</li> <li>Test: LD50 - Route: Oral - Species: Rabou University, Series C: Medicine. Vol. 36(1-4), Pg. 10, 1989.</li> <li>2,47.9, +14, 1982.</li> <li>Test: LD50 - Route: Oral - Species: Rat &gt; 2000 mg/kg</li> <li>skin corrosion/irritation: Test: Sich Sensitiex Ar-Ar-diol - CAS: 126-86-3</li> <li>a) acute toxicity: Test: LD50 - Route: Dermal - Species: Rat &gt; 2000 mg/kg</li> <li>skin</li></ul>		
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<ul> <li>Test: LD50 - Route: Oral - Species: Guinea pig = 7750 mg/kg - Source: Journal of Industrial Hygiene and Toxicology. Vol. 23, Pg. 259, 1941</li> <li>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.</li> <li>2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether - CAS: 143-22-6</li> <li>a) acute toxicity: Test: LD50 - Route: Dermal - Species: Rabbit = 3.54 ml/kg - Source: American Industrial Hygiene Association Journal. Vol. 23, Pg. 95, 1962.</li> <li>Test: LD50 - Route: Oral - Species: Rat = 5300 mg/kg - Source: Office of Toxic Substances Report. Vol. OTS,</li> <li>2-Pyrrolidone - CAS: 616-45-5</li> <li>a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat &gt; 2000 mg/kg</li> <li>Test: LD50 - Route: Oral - Species: Rabbit &gt; 2000 mg/kg</li> <li>Test: LD50 - Route: Oral - Species: Rabbit &gt; 2000 mg/kg</li> <li>Test: LD50 - Route: Oral - Species: Rabbit &gt; 2000 mg/kg</li> <li>b) skin corrosion/irritation: Test: Skin Irritant - Species: Rabbit Moderate irritant - Based on available data, the classification criteria are not met</li> <li>d) respiratory or skin sensitisation: Test: Skin Sensitisation - Route: LLNA - Species: Mouse Negative</li> <li>e) germ cell mutagenicity: Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli Negative</li> <li>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.</li> <li>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.</li> <li>2,4,7,9-tetramethyldec-5-yne-4,7-diol - CAS: 126-86-3</li> <li>acute toxicity: Test: LD50 - Route: O</li></ul>		
<ul> <li>of Industrial Hygiene and Toxicology. Vol. 23, <sup>1</sup>Pg. 259, 1941<sup>-</sup> 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.</li> <li>2;-[2;-2-butoxyethoxy]ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether - CAS: 143-22-6</li> <li>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,</li> <li>2-Pyrrolidone - CAS: 616-45-5</li> <li>a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat &gt; 2000 mg/kg Test: LD50 - Route: Dermal - Species: Rabbit &gt; 2000 mg/kg</li> <li>b) skin corrosion/irritation: Test: Skin Irritant - Species: Rabbit Non-irritant</li> <li>c) serious eye damage/irritation: Test: Skin Irritant - Species: Rabbit Moderate irritant - Based on available data, the classification criteria are not met</li> <li>d) respiratory or skin sensitisation: Test: Skin Sensitisation - Route: LLNA - Species: Mouse Negative</li> <li>e) germ cell mutagenicity: Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli Negative</li> <li>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.</li> <li>Test: LD50 - Route: Oral - Species: Mouse = 5846 mg/kg - Source: Sience Reports of the Research Institutes, Tohoku University, Series C: Medicine. Vol. 36(1-4), Pg. 10, 1989.</li> <li>2,4,7,9-tetramethyldec-5-yne-4,7-diol - CAS: 126-86-3</li> <li>acute toxicity: Test: LD50 - Route: Oral - Species: Rato &gt; 2000 mg/kg</li> <li>b) skin corrosion/irritation: Test: Skin Irritant - Species: Rabbit Hild irritant</li> <li>esrious</li></ul>		a) acute toxicity:
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Substances Report. Vol. OTŠ, 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, 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: Skin Irritant - Species: Rabbit Mild irritant c) serious eye damage/irritation: Test: Skin Irritant - Species: Rabbit Mild irritant c) serious eye damage/irritation: Test: Skin Irritant - Species: Rabbit Highly irritating d) respiratory or skin sensitisation - Route: LLNA - Species: Mouse Sensitiser		
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<ul> <li>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.</li> <li>2,4,7,9-tetramethyldec-5-yne-4,7-diol - CAS: 126-86-3</li> <li>a) acute toxicity: Test: LD50 - Route: Dermal - Species: Rat &gt; 2000 mg/kg</li> <li>b) skin corrosion/irritation: Test: Skin Irritant - Species: Rabbit Mild irritant</li> <li>c) serious eye damage/irritation: Test: Eye Irritant - Species: Rabbit Highly irritating</li> <li>d) respiratory or skin sensitisation: Test: Skin Sensitisation - Route: LLNA - Species: Mouse Sensitiser</li> </ul>		
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Test: Skin Sensitisation - Route: LLNA - Species: Mouse Sensitiser		
e) germ cell mutagenicity:		
		e) germ cell mutagenicity:
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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 >= 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: Daprinia > 500 mg/l Duration II. 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 >= 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.

Hazard class and	Code	Description
hazard category		
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
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
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 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 11: Toxicological information

SECTION 12: Ecological 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

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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: GefStoffVO:	European Inventory of Existing Commercial Chemical Substances. Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of
GH3.	Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO. ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization"
ICAO-11.	(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.