

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

1.1. Product identifier

Mixture identification:

Trade name: T0390  
Trade code: C13T03904A

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

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: 21/11/2022

Revision: 1.0

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 Direct Yellow 173. 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:











<Magenta ink>

Qty	Name	Ident. Number	Classification
50% ~ 65%	Water	CAS: 7732-18-5 EC: 231-791-2	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
7% ~ 10%	Glycerol	CAS: 56-81-5 EC: 200-289-5	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
7% ~ 10%	2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether	Index number: 603-183-00-0 CAS: 143-22-6 EC: 205-592-6 REACH No.: 01-21194751 07-38	 3.3/1 Eye Dam. 1 H318 Specific Concentration Limits: C >= 30%: Eye Dam. 1 H318 20% <= C < 30%: Eye Irrit. 2 H319
7% ~ 10%	2,2' -oxybisethanol; diethylene glycol	Index number: 603-140-00-6 CAS: 111-46-6 EC: 203-872-2	 3.1/4/Oral Acute Tox. 4 H302
1% ~ 3%	tetra-ammonium 2-[6-[7-(2-carboxylatophenylazo)-8-hydroxy-3,6-disulfonato-1-naphthylamino]-4-hydroxy-1,3,5-triazin-2-ylamino]benzoate	Index number: 611-130-00-8 CAS: 183130-96-3 EC: 418-520-5	 3.3/2 Eye Irrit. 2 H319 4.1/C3 Aquatic Chronic 3 H412
0.5% ~ 1%	Triethanolamine	CAS: 102-71-6 EC: 203-049-8	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
0.0015% ~ 0.05%	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	Index number: 613-088-00-6 CAS: 2634-33-5 EC: 220-120-9	 3.1/4/Oral Acute Tox. 4 H302  3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318  3.4.2/1 Skin Sens. 1 H317  4.1/A1 Aquatic Acute 1 H400 Specific Concentration Limits: 0.005% <= C < 0.05%: EUH208 C >= 0.05%: Skin Sens. 1 H317




<Yellow ink>






Qty	Name	Ident. Number	Classification
65% ~ 80%	Water	CAS: 7732-18-5 EC: 231-791-2	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
10% ~	2-[2-(2-butoxyethoxy)et	Index 603-183-00-0	 3.3/1 Eye Dam. 1 H318

**Safety Data Sheet**

12.5%	hoxyl]ethanol; TEGBE; triethylene glycol monobutyl ether	number: CAS: 143-22-6 EC: 205-592-6 REACH No.: 01-21194751 07-38	Specific Concentration Limits: C >= 30%: Eye Dam. 1 H318 20% <= C < 30%: Eye Irrit. 2 H319
10% ~ 12.5%	Glycerol	CAS: 56-81-5 EC: 200-289-5	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
7% ~ 10%	2,2' -oxybisethanol; diethylene glycol	Index number: 603-140-00-6 CAS: 111-46-6 EC: 203-872-2	 3.1/4/Oral Acute Tox. 4 H302
1% ~ 3%	Direct Yellow 173	Index number: 611-141-00-8 EC: 414-410-6 REACH No.: 01-00000161 46-74	 3.3/1 Eye Dam. 1 H318  3.4.2/1 Skin Sens. 1 H317
0.5% ~ 1%	2,4,7,9-tetramethyldec-5-yne-4,7-diol	CAS: 126-86-3 EC: 204-809-1 REACH No.: 01-21199543 90-39	 3.3/1 Eye Dam. 1 H318  3.4.2/1B Skin Sens. 1B H317 4.1/C3 Aquatic Chronic 3 H412
0.0015% ~ 0.05%	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	Index number: 613-088-00-6 CAS: 2634-33-5 EC: 220-120-9	 3.1/4/Oral Acute Tox. 4 H302  3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318  3.4.2/1 Skin Sens. 1 H317  4.1/A1 Aquatic Acute 1 H400 Specific Concentration Limits: 0.005% <= C < 0.05%: EUH208 C >= 0.05%: Skin Sens. 1 H317

<Cyan ink>

Qty	Name	Ident. Number	Classification
50% ~ 65%	Water	CAS: 7732-18-5 EC: 231-791-2	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
7% ~ 10%	Glycerol	CAS: 56-81-5 EC: 200-289-5	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
7% ~ 10%	2-[2-(2-butoxyethoxy)et hoxyl]ethanol; TEGBE; triethylene glycol monobutyl ether	Index number: 603-183-00-0 CAS: 143-22-6 EC: 205-592-6 REACH No.: 01-21194751 07-38	 3.3/1 Eye Dam. 1 H318 Specific Concentration Limits: C >= 30%: Eye Dam. 1 H318 20% <= C < 30%: Eye Irrit. 2 H319
1% ~ 3%	2-Pyrrolidone	CAS: 616-45-5 EC: 210-483-1 REACH No.: 01-21194754 71-37	 3.3/2 Eye Irrit. 2 H319  3.7/1B Repr. 1B H360 Specific Concentration Limits: C >= 3%: Repr. 1B H360
0.25% ~ 0.5%	Triethanolamine	CAS: 102-71-6 EC: 203-049-8 REACH No.: 01-21194864	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

		82-31	
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
			 3.1/4/Oral Acute Tox. 4 H302  3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318  3.4.2/1 Skin Sens. 1 H317  4.1/A1 Aquatic Acute 1 H400 Specific Concentration Limits: 0.005% <= C < 0.05%: EUH208 C >= 0.05%: Skin Sens. 1 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:	Magenta / Yellow / Cyan		
Odour:	Slightly		
Melting point / freezing point:	No data available		
Boiling point or initial boiling point and boiling range:	No data available		
Lower and upper explosion limit:	No data available		
Flash point:	Does not flash until 100 °C / 212 ° F		
	(closed cup method, ASTM D 3278)		
Auto-ignition temperature:	No data available		
Decomposition temperature:	No data available		
pH:	8.6 ~ 9.6	at 20°C	(Magenta ink)
	8.5 ~ 9.5	at 20°C	(Yellow ink)
	8.5 ~ 9.8	at 20°C	(Cyan ink)
Kinematic viscosity:	No data available		

Solubility in water:	Complete
Vapour pressure:	No data available
Density and/or relative density:	(Specific gravity (relative density))
	1.080 (Magenta ink)
	1.064 (Yellow ink)
	1.071 (Cyan ink)
Relative vapour density:	No data available
Particle characteristics:	Not Relevant

9.2. Other information

Viscosity: < 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  
None.

**SECTION 11: Toxicological information**

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

<Magenta ink>

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Dermal - Species: Rat > 2000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Non-irritant

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Mild irritant

d) respiratory or skin sensitisation:

Test: Skin Sensitisation - Route: Maximisation Assay - Species: Guinea pig  
Non-sensitiser

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)

<Yellow ink>

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Dermal - Species: Rat > 2000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Non-irritant



- c) serious eye damage/irritation:  
Test: Eye Irritant - Species: Rabbit Minimal irritant
- d) respiratory or skin sensitisation:  
Test: Skin Sensitisation - Route: Maximisation Assay - Species: Guinea pig  
Non-sensitiser
- e) germ cell mutagenicity:  
Test: Mutagenesis - Species: Salmonella Typhimurium Negative
- f) carcinogenicity:  
Does not contain carcinogens (Ref. 1)
- g) reproductive toxicity:  
Does not contain reproductive toxicity and developmental toxic substances (Ref. 2)

<Cyan ink>

- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat > 2500 mg/kg  
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 Minimal irritant
- d) respiratory or skin sensitisation:  
Test: Skin Sensitisation - Route: Maximisation Assay - Species: Guinea pig  
Non-sensitiser
- 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,

2,2'-oxybisethanol; diethylene glycol - CAS: 111-46-6

- b) skin corrosion/irritation:  
Test: Skin Irritant - Species: Rabbit Mild irritant
- e) germ cell mutagenicity:  
Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli  
Negative

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
- Direct Yellow 173 - Index number: 611-141-00-8
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg - Source: Acute Oral Toxicity Study with H113664 in Rats.  
Test: LD50 - Route: Dermal - Species: Rat > 2000 mg/kg - Source: Acute Dermal Toxicity Study with H113664 in Rats
- b) skin corrosion/irritation:  
Test: Skin Irritant - Species: Rabbit Slight - Duration: 4h - Source: Primary Skin Irritation Study with H113664 in Rabbits
- c) serious eye damage/irritation:  
Test: Eye Irritant - Species: Rabbit Severe irritant - Source: Primary Eye Irritation Study with H113664 in Rabbits
- d) respiratory or skin sensitisation:  
Test: Skin Sensitisation - Species: Guinea pig Sensitiser - Source: Contact Hypersensitivity to H113664 in Albino Guinea Pigs, Maximisation Test
- e) germ cell mutagenicity:  
Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli Negative - Source: Salmonella typhimurium and Escherichia coli Reverse Mutation Assay for Azo dyes with H113664
- 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  
Direct Yellow 173 - Index number: 611-141-00-8  
a) Aquatic acute toxicity:  
Endpoint: LC50 - Species: Fish > 120 mg/l - Duration h: 96  
Endpoint: EC50 - Species: Daphnia > 20 mg/l - Duration h: 48  
Endpoint: ErC50 - Species: Algae > 100 mg/l  
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.

H302 Harmful if swallowed.

H360 May damage fertility or the unborn child.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

H315 Causes skin irritation.

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
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

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

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.