

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 2 04500 N0000 epple-loc 4500-new  
Print date 20.02.2023 Revision date 20.02.2023  
Version 8.0 Issue date 20.02.2023

EN  
Page 1 / 11

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

**1.1. Product identifier**

Article No. (manufacturer/supplier): 2 04500 N0000  
Trade name/designation epple-loc 4500-new  
Adhesive  
UFI: HN10-S0VN-400T-DH5W

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

**Relevant identified uses:**

Anaerobic-hardening product for the screw locking and surface seal

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

**supplier (manufacturer/importer/downstream user/distributor)**

E. Epple & Co. GmbH  
Hertzstr. 8  
71083 Herrenberg

Telephone: +49 7032 / 9771-17  
Telefax: +49 7032 / 9771-60  
www.epple-chemie.de

**Department responsible for information:**

laboratory

E-mail (competent person)

labor@epple-chemie.de

**1.4. Emergency telephone number**

Information center against poisoning Bonn

+49 (0) 228 / 19 240 (Advice in German)

**SECTION 2: Hazards identification**

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

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Corr. 1A / H314

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Eye Dam. 1 / H318

Serious eye damage/eye irritation

Causes serious eye damage.

Skin Sens. 1 / H317

Respiratory or skin sensitisation

May cause an allergic skin reaction.

STOT SE 3 / H335

STOT-single exposure

May cause respiratory irritation.

**2.2. Label elements**

The product is classified and labelled according to EC directives or corresponding national laws.

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**



**Danger**

**Hazard statements**

H314

Causes severe skin burns and eye damage.

H317

May cause an allergic skin reaction.

H335

May cause respiratory irritation.

**Precautionary statements**

P260

Do not breathe vapour.

P280

Wear protective gloves.

P301 + P330 + P331

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P304 + P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P333 + P313

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

P501

Dispose of contents/container in accordance with local/regional/ national/international regulations.

**Hazard components for labelling**

methacrylic acid

2-hydroxyethyl methacrylate

triethylene glycol dimethacrylate

**Supplemental hazard information**

not applicable

**2.3. Other hazards**

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 2 04500 N0000 epple-loc 4500-new  
Print date 20.02.2023 Revision date 20.02.2023  
Version 8.0 Issue date 20.02.2023

EN  
Page 2 / 11

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures \*

**Description** anaerobic one-part adhesive

#### Hazardous ingredients

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
212-782-2 868-77-9 607-124-00-X	01-2119490169-29 2-hydroxyethyl methacrylate Eye Irrit. 2 H319 / Skin Irrit. 2 H315 / Skin Sens. 1 H317	49,9 - 74,9
201-204-4 79-41-4 607-088-00-5	01-2119463884-26 methacrylic acid Acute Tox. 4 H312 / Acute Tox. 4 H302 / Skin Corr. 1A H314 Specific concentration limit (SCL): STOT SE 3 H335 >= 1	2,4 - 9,9
203-652-6 109-16-0	01-2119969287-21 triethylene glycol dimethacrylate Skin Sens. 1B H317	2,4 - 9,9
201-254-7 80-15-9 617-002-00-8	01-2119475796-19 $\alpha,\alpha$ -dimethylbenzyl hydroperoxide Org. Perox. E H242 / Acute Tox. 3 H331 / Acute Tox. 4 H312 / Acute Tox. 4 H302 / STOT RE 2 H373 / Skin Corr. 1B H314 / Aquatic Chronic 2 H411 Specific concentration limit (SCL): Skin Corr. 1B H314 >= 10 / Skin Irrit. 2 H315 >= 3 / Eye Dam. 1 H318 >= 3 / Eye Irrit. 2 H319 >= 1 / STOT SE 3 H335 >= 1 Acute toxicity estimate (ATE): ATE (oral): 382 mg/kg bw / ATE (inhalation, vapour): 1,37 mg/L	0,9 - 2,4

#### Additional information

Full text of classification: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

##### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

##### Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

##### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

##### Following ingestion

Seek medical advice immediately.

#### 4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice. Dyspnoea

#### 4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media

Article No.: 2 04500 N0000 epple-loc 4500-new  
Print date 20.02.2023 Revision date 20.02.2023  
Version 8.0 Issue date 20.02.2023

EN  
Page 3 / 11

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

**Unsuitable extinguishing media**

strong water jet

**5.2. Special hazards arising from the substance or mixture**

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

**5.3. Advice for firefighters**

Provide a conveniently located respiratory protective device. Do not allow water used to extinguish fire to enter drains, ground or waterways. Cool closed containers that are near the source of the fire.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

**6.3. Methods and material for containment and cleaning up**

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

**6.4. Reference to other sections**

Observe protective provisions (see section 7 and 8).

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advices on safe handling**

Avoid contact with skin, eyes and clothes. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Follow the legal protection and safety regulations.

**Further information**

Vapours are heavier than air. Vapours form explosive mixtures with air.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**7.3. Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

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

**8.1. Control parameters**

**Occupational exposure limit values**

methacrylic acid

Index No. 607-088-00-5 / EC No. 201-204-4 / CAS No. 79-41-4

TWA: 72 mg/m<sup>3</sup>; 20 ppm

STEL: 143 mg/m<sup>3</sup>; 40 ppm

**Additional information**

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

\*

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 2 04500 N0000 epple-loc 4500-new  
Print date 20.02.2023 Revision date 20.02.2023  
Version 8.0 Issue date 20.02.2023

EN  
Page 4 / 11

**DNEL:**

2-hydroxyethyl methacrylate

Index No. 607-124-00-X / EC No. 212-782-2 / CAS No. 868-77-9

DNEL long-term dermal (systemic), Workers: 1,3 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 4,9 mg/m<sup>3</sup>

$\alpha,\alpha$ -dimethylbenzyl hydroperoxide

Index No. 617-002-00-8 / EC No. 201-254-7 / CAS No. 80-15-9

DNEL long-term inhalative (systemic), Workers: 6 mg/m<sup>3</sup>

triethylene glycol dimethacrylate

EC No. 203-652-6 / CAS No. 109-16-0

DNEL long-term dermal (systemic), Workers: 13,9 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 48,5 mg/m<sup>3</sup>

**PNEC:**

2-hydroxyethyl methacrylate

Index No. 607-124-00-X / EC No. 212-782-2 / CAS No. 868-77-9

PNEC aquatic, freshwater: 0,482 mg/L

PNEC aquatic, marine water: 0,482 mg/L

PNEC aquatic, intermittent release: 1 mg/L

PNEC sediment, freshwater: 3,79 mg/kg

PNEC sediment, marine water: 3,79 mg/kg

PNEC, soil: 0,476 mg/kg

PNEC sewage treatment plant (STP): 10 mg/L

$\alpha,\alpha$ -dimethylbenzyl hydroperoxide

Index No. 617-002-00-8 / EC No. 201-254-7 / CAS No. 80-15-9

PNEC aquatic, freshwater: 0,0031 mg/L

PNEC aquatic, marine water: 0,0003 mg/L

PNEC aquatic, intermittent release: 0,031 mg/L

PNEC sediment, freshwater: 0,023 mg/kg

PNEC sediment, marine water: 0,0023 mg/kg

PNEC, soil: 0,0029 mg/kg

PNEC sewage treatment plant (STP): 0,35 mg/L

triethylene glycol dimethacrylate

EC No. 203-652-6 / CAS No. 109-16-0

PNEC aquatic, freshwater: 0,164 mg/L

PNEC aquatic, marine water: 0,0164 mg/L

PNEC aquatic, intermittent release: 0,164 mg/L

PNEC sediment, freshwater: 1,85 mg/kg

PNEC sediment, marine water: 0,185 mg/kg

PNEC, soil: 0,274 mg/kg

PNEC sewage treatment plant (STP): 10 mg/L

**8.2. Exposure controls**

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

**Personal protection equipment**

**Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

**Hand protection**

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

**Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 2 04500 N0000 epple-loc 4500-new  
Print date 20.02.2023 Revision date 20.02.2023  
Version 8.0 Issue date 20.02.2023

EN  
Page 5 / 11

**Body protection**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

**Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

**Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

**SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	green
Odour:	characteristic
Odour threshold:	not applicable
Melting point/freezing point:	-52 °C Source: triethylene glycol dimethacrylate
Initial boiling point and boiling range:	not applicable
Flammability:	Combustible liquid.
Lower and upper explosion limit:	
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Flash point:	> 100 °C
Auto-ignition temperature:	not applicable
Decomposition temperature:	not applicable
pH at 20 °C:	not relevant
Cinematic viscosity (40°C):	564,81 mm <sup>2</sup> /s
Viscosity at 20 °C:	520 - 700 mPa*s
Solubility(ies):	
Water solubility at 20 °C:	partially miscible
Partition coefficient: n-octanol/water:	see section 12
Vapour pressure at 20 °C:	not applicable
Density and/or relative density:	
Density at 20 °C:	1,08 g/cm <sup>3</sup>
Relative vapour density:	not applicable
particle characteristics:	not applicable

9.2. Other information

Solid content:	100 weight-%
solvent content:	
Organic solvents:	0 weight-%
Water:	0 weight-%
Solvent separation test:	< 3 weight-% (ADR/RID)

**SECTION 10: Stability and reactivity**

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Conditions to avoid Radiant heat.; UV-radiation/sunlight

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

**10.5. Incompatible materials**

not applicable

**10.6. Hazardous decomposition products**

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

**SECTION 11: Toxicological information**

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

**Acute toxicity**

2-hydroxyethyl methacrylate

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rabbit: > 5000 mg/kg

$\alpha,\alpha$ -dimethylbenzyl hydroperoxide

oral, LD50, Rat: 382 mg/kg

dermal, LD50, Rat: 530 - 1060 mg/kg

inhalative (vapours), LC50, Rat: 1,37 mg/L (4 h)

triethylene glycol dimethacrylate

oral, LD50, Rat: 10837 mg/kg

dermal, LD50, Mouse: > 2000 mg/kg

**Skin corrosion/irritation; Serious eye damage/eye irritation**

Causes severe skin burns and eye damage.

2-hydroxyethyl methacrylate

eyes, Rabbit: Evaluation irritant.

Method: Draize test

$\alpha,\alpha$ -dimethylbenzyl hydroperoxide

Skin, Rabbit: Evaluation corrosive

Method: Draize test

triethylene glycol dimethacrylate

Skin, Rabbit (24 h): Evaluation non-irritant.

Method: Draize test

eyes, Rabbit: Evaluation non-irritant.

Method: OECD 405

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

2-hydroxyethyl methacrylate

Skin, Guinea pig: ; Evaluation sensitising

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

2-hydroxyethyl methacrylate

Germ cell mutagenicity; Evaluation negative

Method: OECD 471 (Ames test)

Germ cell mutagenicity; Evaluation positive.

Method: OECD 473.

in-vitro

Germ cell mutagenicity; Evaluation negative

Method: OECD 476

$\alpha,\alpha$ -dimethylbenzyl hydroperoxide

Germ cell mutagenicity; Evaluation positive

Method: OECD 471 (Ames test)

triethylene glycol dimethacrylate

Germ cell mutagenicity; Evaluation negative

Method: OECD 476

with and without metabolic activation

Germ cell mutagenicity; Evaluation negative

Method: OECD 471 (Ames test)

with and without metabolic activation

### STOT-single exposure; STOT-repeated exposure

May cause respiratory irritation.

2-hydroxyethyl methacrylate

STOT-repeated exposure, NOAEL, Rat: 100 mg/kg

Method: OECD 422

triethylene glycol dimethacrylate

STOT-repeated exposure, NOAEL, Rat: 1000 mg/kg

Method: OECD 422

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Practical experience/human evidence

The fractions of acrylic resin in the preparation have an irritant effect.

### Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

### Remark

There is no information available on the preparation itself .

## 11.2. Information on other hazards

### Endocrine disrupting properties

No information available.

## SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]

Do not allow to enter into surface water or drains.

## 12.1. Toxicity

2-hydroxyethyl methacrylate

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 227 mg/L (96 h)

Method: OECD 202

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 380 mg/L (48 h)

Method: OECD 202

Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 400 mg/L (72 h)

Method: OECD 201

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 836 mg/L (72 h)

Method: OECD 201

Fish toxicity, LC50, Oryzias latipes (Ricefish): > 100 mg/L (96 h)

Method: OECD 203

Bacteria toxicity, EC0, Pseudomonas fluorescens: > 3000 mg/L (16 h)

$\alpha,\alpha$ -dimethylbenzyl hydroperoxide

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 3,9 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 18,84 mg/L (48 h)

Method: OECD 202

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 3,1 mg/L (72 h)

Method: OECD 201

Bacteria toxicity, EC10: 70 mg/L (30 min)

triethylene glycol dimethacrylate

Fish toxicity, LC50, Danio rerio (zebrafish): 16,4 mg/L (96 h)

Method: OECD 203

Algae toxicity, EC50, Pseudokirchneriella subcapitata: > 1 mg/L (72 h)

Method: OECD 201

### Long-term Ecotoxicity

2-hydroxyethyl methacrylate

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 24,1 mg/L (21 d)

Method: OECD 211

$\alpha,\alpha$ -dimethylbenzyl hydroperoxide

Algae toxicity, NOEC, Desmodesmus subspicatus: 1 mg/L (72 h)

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 2 04500 N0000 epple-loc 4500-new  
Print date 20.02.2023 Revision date 20.02.2023  
Version 8.0 Issue date 20.02.2023

EN  
Page 8 / 11

Method: OECD 201

triethylene glycol dimethacrylate

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 32 mg/L (21 d)

Method: OECD 211

Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 18,6 mg/L (72 h)

Method: OECD 201

**12.2. Persistence and degradability**

\*

2-hydroxyethyl methacrylate

Biodegradation: 92 - 100 % (14 d); Evaluation Readily biodegradable

Method: OECD 301C

$\alpha,\alpha$ -dimethylbenzyl hydroperoxide

Biodegradation, aerobic.: 3 % (28 d); Evaluation Not readily biodegradable

Method: OECD 301B

triethylene glycol dimethacrylate

Biodegradation, aerobic: 85 % (28 d); Evaluation Readily biodegradable

Method: OECD 301B

**12.3. Bioaccumulative potential**

\*

2-hydroxyethyl methacrylate

Partition coefficient: n-octanol/water: 0,42

Method: OECD 107

$\alpha,\alpha$ -dimethylbenzyl hydroperoxide

Partition coefficient: n-octanol/water: 2,16

triethylene glycol dimethacrylate

Partition coefficient: n-octanol/water: 2,3

Method: OECD 117

**Bioconcentration factor (BCF)**

$\alpha,\alpha$ -dimethylbenzyl hydroperoxide

Bioconcentration factor (BCF): 9,1

Method: OECD 305

**12.4. Mobility in soil**

Toxicological data are not available.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Endocrine disrupting properties**

No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product Recommendation**

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

**List of proposed waste codes/waste designations in accordance with EWC**

080409\* Waste adhesives and sealants containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package Recommendation**

**Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**SECTION 14: Transport information**

**14.1. UN number or ID number**

UN 1760

**14.2. UN proper shipping name**



**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 2 04500 N0000 epple-loc 4500-new  
Print date 20.02.2023 Revision date 20.02.2023  
Version 8.0 Issue date 20.02.2023

EN  
Page 9 / 11

Land transport (ADR/RID):	Corrosive liquid, n.o.s. (methacrylic acid, stabilized)
Sea transport (IMDG):	CORROSIVE LIQUID, N.O.S. (methacrylic acid, stabilized)
Air transport (ICAO-TI / IATA-DGR):	Corrosive liquid, n.o.s. (methacrylic acid, stabilized)
<b>14.3. Transport hazard class(es)</b>	8
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	
Land transport (ADR/RID)	not applicable
Marine pollutant	not applicable
<b>14.6. Special precautions for user</b>	
Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage. Advices on safe handling: see parts 6 - 8	
<b>Further information</b>	
<b>Land transport (ADR/RID)</b>	
Tunnel restriction code	E
<b>Sea transport (IMDG)</b>	
EmS-No.	F-A, S-B
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	
No transport as bulk according IBC - Code.	

**SECTION 15: Regulatory information**

<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>		
<b>EU legislation</b>		
<b>Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]</b>		
VOC-value (in g/L): 5		
<b>National regulations</b>		
<b>Restrictions of occupation</b>		
Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.		
<b>Substance/product listed in the following inventories:</b>		
AICS no information		
DSL no information		
EHS no information		
IECSC no information		
KECI no information		
MITI no information		
NZLoC no information		
PICCS no information		
TCSI no information		
TSCA no information		
<b>15.2. Chemical Safety Assessment</b>	*	
<b>For the following substances of this mixture a chemical safety assessment has been carried out:</b>		
<b>EC No.</b>	<b>Designation</b>	<b>REACH No.</b>
<b>CAS No.</b>		
212-782-2	2-hydroxyethyl methacrylate	01-2119490169-29
868-77-9		

**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**  
**according to Regulation (EU) 2020/878**



Article No.: 2 04500 N0000 epple-loc 4500-new  
 Print date 20.02.2023 Revision date 20.02.2023  
 Version 8.0 Issue date 20.02.2023

EN  
 Page 10 / 11

201-204-4 79-41-4	methacrylic acid	01-2119463884-26
203-652-6 109-16-0	triethylene glycol dimethacrylate	01-2119969287-21
201-254-7 80-15-9	$\alpha,\alpha$ -dimethylbenzyl hydroperoxide	01-2119475796-19

**SECTION 16: Other information**

\*

**Full text of classification in section 3:**

Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Corr. 1A / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Skin Sens. 1B / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Org. Perox. E / H242	Organic peroxides	Heating may cause a fire.
Acute Tox. 3 / H331	Acute toxicity (inhalative)	Toxic if inhaled.
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Skin Corr. 1B / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

**Classification procedure**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Skin Corr. 1A	Skin corrosion/irritation	Calculation method.
Eye Dam. 1	Serious eye damage/eye irritation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.

**Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 2 04500 N0000 epple-loc 4500-new  
Print date 20.02.2023 Revision date 20.02.2023  
Version 8.0 Issue date 20.02.2023

EN  
Page 11 / 11

---

**Abbreviations and acronyms**

n.a. = not applicable  
n.b. = not determined

**Further information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

\* Data changed compared with the previous version