

Trade name: Fixtemp C&B 4:1 Base

Substance number: 71401

Version: 1 / GB

Date revised: 24.03.2023

Replaces Version: - / GB

Print date: 24.03.2023

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

1.1. Product identifier

Fixtemp C&B 4:1 Base

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

Use of the substance/preparation

Material for the production of temporary crowns and bridges

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Dentamid GmbH

Max-Planck-Straße 31

59423 Unna

Telephone no. +49 2303 8807-0

Fax no. +49 2303 8807-29

Information provided by / telephone Department Research & Development: Fax: +49 2303 8807-562

E-mail address of person responsible sicherheitsdatenblatt@dreve.com

for this SDS

1.4. Emergency telephone number

Henkel Fire Department / 24h-Emergency-Contact-No.: +49 211 797-3350

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Skin Sens. 1 H317

Aquatic Chronic 3 H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

H317

May cause an allergic skin reaction.

H412

Harmful to aquatic life with long lasting effects.



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Precautionary statements

| | |
|-----------|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P501.1 | Dispose of contents/container to industrial incineration plant. |

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

| | |
|----------|--|
| contains | 2,2'-ethylenedioxydiethyl dimethacrylate; 7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diylbismethacrylate |
|----------|--|

2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous ingredients****Bisphenol A, ethoxylated, dimethacrylate**

| | |
|--|------------------------|
| CAS No. | 41637-38-1 |
| EINECS no. | 609-946-4 |
| Registration no. | 01-2119980659-17 |
| Concentration | >= 25 < 50 % |
| Classification (Regulation (EC) No. 1272/2008) | Aquatic Chronic 4 H413 |

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diylbismethacrylate

| | |
|--|--|
| CAS No. | 72869-86-4 |
| EINECS no. | 276-957-5 |
| Registration no. | 01-2120751202-68 |
| Concentration | >= 2,5 < 10 % |
| Classification (Regulation (EC) No. 1272/2008) | Skin Sens. 1B H317 Aquatic Chronic 2 H411 |

2,2'-ethylenedioxydiethyl dimethacrylate

| | |
|--|---------------------------|
| CAS No. | 109-16-0 |
| EINECS no. | 203-652-6 |
| Registration no. | 01-2119969287-21 |
| Concentration | >= 1 < 10 % |
| Classification (Regulation (EC) No. 1272/2008) | Skin Sens. 1 H317 |
| | Route of exposure: dermal |

Quaternary ammonium compounds, tri-C8-C10-alkylmethyl, chlorides

| | |
|------------------|------------------|
| CAS No. | 63393-96-4 |
| EINECS no. | 264-120-7 |
| Registration no. | 01-2119982988-08 |
| Concentration | >= 0,01 < 0,1 % |



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Classification (Regulation (EC) No. 1272/2008)

| | |
|-------------------|-------|
| Acute Tox. 3 | H301 |
| Skin Corr. 1C | H314 |
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |
| Repr. 2 | H361d |

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 H400 M = 10

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid

After inhalation

Ensure supply of fresh air. Remove affected person from danger area. Seek medical advice immediately.

After skin contact

Wash off immediately with soap and water. Seek medical advice immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

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

Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO₂, powders, water spray/mist, Extinguishing measures to suit surroundings

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

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Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor's instructions.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Keep away sources of ignition. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Pick up rest with suitable absorbent materials. Do not pick up with the help of saw-dust or other combustible substances. Clean contaminated floors and objects thoroughly, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid formation of aerosols. Avoid impact, friction and electro-static loading; risk of ignition!. Keep container tightly closed.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking. Take action to prevent static discharges. Avoid impact and friction. Use only explosion-proof equipment. Keep away from combustible material. Wear shoes with conductive soles.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Hints on storage assembly

Do not store together with foodstuffs. Do not store with strong oxidizing agents.

Further information on storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized. Keep container tightly closed and in a well-ventilated place. Keep in a cool place



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Bisphenol A, ethoxylated, dimethacrylate

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 3,52 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 2 | mg/kg |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 0,87 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 1 | mg/kg |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | oral | |
| Mode of action | Systemic effects | |
| Concentration | 0,5 | mg/kg |

2,2'-ethylenedioxydiethyl dimethacrylate

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 13,9 | mg/kg |

| | | |
|-----------------|--------------------------------|--|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | General Population | |



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| | | |
|----------------------|------------------|-------------------|
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 14,05 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | General Population | |
| Duration of exposure | Long term | |
| Route of exposure | oral | |
| Mode of action | Systemic effects | |
| Concentration | 8,33 | mg/kg |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | General Population | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 8,33 | mg/kg |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 48,5 | mg/m ³ |

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 3,3 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 1,3 | mg/kg |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 0,6 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | oral | |
| Mode of action | Systemic effects | |
| Concentration | 0,3 | mg/kg |

| | | |
|---------------|--------------------------------|--|
| Type of value | Derived No Effect Level (DNEL) | |
|---------------|--------------------------------|--|



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| | | |
|----------------------|------------------|-------|
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 0,7 | mg/kg |

Predicted No Effect Concentration (PNEC)**2,2'-ethylenedioxydiethyl dimethacrylate**

| | | |
|---------------|------------------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,016 | mg/l |
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,002 | mg/l |
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 0,185 | mg/kg |
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 0,018 | mg/kg |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0,027 | mg/kg |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 1,7 | mg/l |

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate

| | | |
|---------------|------------------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,01 | mg/l |
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 4,56 | mg/kg |
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,001 | mg/l |
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 0,46 | mg/kg |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0,91 | mg/kg |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 3,61 | mg/l |



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| | | |
|---------------|------------------------------|------|
| Type of value | PNEC | |
| Type | Water (intermittent release) | |
| Concentration | 0,1 | mg/l |

8.2. Exposure controls

General protective and hygiene measures

Do not smoke during work time. Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Do not eat or drink during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

Do not inhale vapours; Use suitable respiratory protective device in case of insufficient ventilation

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Hand protection must comply with EN 374.

Appropriate Material nitrile

Eye protection

Safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|---|----------------------------------|----|
| Physical state | liquid, viscous | |
| Colour | Various, depending on coloration | |
| Odour | characteristic | |
| Melting point | | |
| Remarks | not determined | |
| Freezing point | | |
| Remarks | not determined | |
| Boiling point or initial boiling point and boiling range | | |
| Value | > 114 | °C |
| Flammability | | |
| not determined | | |
| Upper and lower explosive limits | | |
| Remarks | not determined | |
| Flash point | | |
| Value | > 100 | °C |
| Method | closed cup | |
| Ignition temperature | | |



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Remarks not determined

Decomposition temperature

Remarks not determined

pH value

Remarks not determined

Viscosity

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Vapour pressure

Remarks not determined

Density and/or relative densityValue 1,84 g/cm³

Temperature 20 °C

Relative vapour density

Remarks not determined

9.2. Other information**Odour threshold**

Remarks not determined

Evaporation rate (ether = 1) :

Remarks not determined

Solubility in water

Remarks virtually insoluble

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Other information

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Protect from heat and direct sunlight

10.5. Incompatible materials

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None known

10.6. Hazardous decomposition products

Toxic gases/vapours, Irritant gases/vapours

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**Acute oral toxicity**

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

Acute oral toxicity (Components)**Quaternary ammonium compounds, tri-C8-C10-alkylmethyl, chlorides**

| | | | | |
|---------|----------|----|------|-------|
| Species | rat | | | |
| LD50 | 200 | to | 2000 | mg/kg |
| Method | OECD 401 | | | |

Bisphenol A, ethoxylated, dimethacrylate

| | | | | |
|---------|-----|------|--|-------|
| Species | rat | | | |
| LD50 | > | 2000 | | mg/kg |

2,2'-ethylenedioxydiethyl dimethacrylate

| | | | | |
|---------|-----|------|--|-------|
| Species | rat | | | |
| LD50 | > | 5000 | | mg/kg |

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate

| | | | | |
|---------|----------|------|--|-------|
| Species | rat | | | |
| LD50 | > | 5000 | | mg/kg |
| Method | OECD 401 | | | |

Acute dermal toxicity

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

Acute dermal toxicity (Components)**Bisphenol A, ethoxylated, dimethacrylate**

| | | | | |
|---------|----------|------|--|-------|
| Species | rat | | | |
| LD50 | > | 2000 | | mg/kg |
| Method | OECD 402 | | | |

2,2'-ethylenedioxydiethyl dimethacrylate

| | | | | |
|---------|-------|------|--|-------|
| Species | mouse | | | |
| LD50 | > | 2000 | | mg/kg |

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate

| | | | | |
|---------|----------|------|--|-------|
| Species | rat | | | |
| LD50 | > | 2000 | | mg/kg |
| Method | OECD 402 | | | |

Acute inhalational toxicity

| | | | | |
|---------------------|---|----|--|------|
| ATE | > | 20 | | mg/l |
| Administration/Form | Dust/Mist | | | |
| Method | calculated value (Regulation (EC) No. 1272/2008) | | | |
| Remarks | Based on available data, the classification criteria are not met. | | | |

Skin corrosion/irritation

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

Skin corrosion/irritation (Components)**Quaternary ammonium compounds, tri-C8-C10-alkylmethyl, chlorides**

| | |
|---------|--------|
| Species | rabbit |
|---------|--------|



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| | |
|------------|-----------|
| evaluation | corrosive |
| Method | OECD 404 |

Serious eye damage/irritation

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

Serious eye damage/irritation (Components)**Quaternary ammonium compounds, tri-C8-C10-alkylmethyl, chlorides**

| | |
|------------|-----------|
| evaluation | corrosive |
|------------|-----------|

Sensitization

| | |
|------------|--|
| evaluation | May cause sensitization by skin contact. |
| Remarks | The classification criteria are met. |

Sensitization (Components)**Quaternary ammonium compounds, tri-C8-C10-alkylmethyl, chlorides**

| | |
|-------------------|-------------|
| Route of exposure | inhalative |
| evaluation | sensitizing |

2,2'-ethylenedioxydiethyl dimethacrylate

| | |
|-------------------|-------------|
| Route of exposure | dermal |
| Species | mouse |
| evaluation | sensitizing |
| Method | OECD 429 |

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate

| | |
|-------------------|-------------|
| Route of exposure | dermal |
| Species | mouse |
| evaluation | sensitizing |

Subacute, subchronic, chronic toxicity

| | |
|---------|----------------|
| Remarks | not determined |
|---------|----------------|

Mutagenicity

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

Reproductive toxicity

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

Reproduction toxicity (Components)**Quaternary ammonium compounds, tri-C8-C10-alkylmethyl, chlorides**

| | |
|-------------------|---|
| Route of exposure | oral |
| Species | rat |
| Dose | 17 mg/kg |
| evaluation | Suspected of damaging the unborn child. |

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)**Single exposure**

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

Repeated exposure

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

Aspiration hazard

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

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

| | |
|---------|---|
| Remarks | The product does not contain a substance that has endocrine disrupting properties with respect to |
|---------|---|

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humans.

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity**General information**

not determined

Fish toxicity (Components)**Quaternary ammonium compounds, tri-C8-C10-alkylmethyl, chlorides**

| | | | |
|----------------------|--------------------------------|---|------|
| Species | zebra fish (Brachydanio rerio) | | |
| LC50 | 0,15 | | mg/l |
| Duration of exposure | 96 | h | |
| Method | OECD 203 | | |

Bisphenol A, ethoxylated, dimethacrylate

| | | | |
|---------|--|--|------|
| Species | rainbow trout (Oncorhynchus mykiss) | | |
| LC50 | > 100 | | mg/l |
| Remarks | Test conducted with a similar formulation. | | |

2,2'-ethylenedioxydiethyl dimethacrylate

| | | | |
|---------|--------------------------------|--|------|
| Species | zebra fish (Brachydanio rerio) | | |
| LC50 | 16,4 | | mg/l |
| Method | OECD 203 | | |

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate

| | | | |
|----------------------|--------------------------------|---|------|
| Species | zebra fish (Brachydanio rerio) | | |
| LC50 | 10,1 | | mg/l |
| Duration of exposure | 96 | h | |
| Method | OECD 203 | | |

Daphnia toxicity (Components)**Quaternary ammonium compounds, tri-C8-C10-alkylmethyl, chlorides**

| | | | |
|----------------------|---------------|---|------|
| Species | Daphnia magna | | |
| EC50 | 0,16 | | mg/l |
| Duration of exposure | 48 | h | |
| Method | OECD 202 | | |

Bisphenol A, ethoxylated, dimethacrylate

| | | | |
|----------------------|--|---|------|
| Species | Daphnia magna | | |
| EC50 | > 100 | | mg/l |
| Duration of exposure | 48 | h | |
| Remarks | Test conducted with a similar formulation. | | |

2,2'-ethylenedioxydiethyl dimethacrylate

| | | | |
|----------------------|---------------|---|------|
| Species | Daphnia magna | | |
| NOEC | 32 | | mg/l |
| Duration of exposure | 21 | d | |
| Method | OECD 211 | | |

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate

| | | | |
|----------------------|---------------|---|------|
| Species | Daphnia magna | | |
| EC50 | 1,2 | | mg/l |
| Duration of exposure | 48 | h | |



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Method OECD 202

Algae toxicity (Components)**Quaternary ammonium compounds, tri-C8-C10-alkylmethyl, chlorides**

| | | |
|----------------------|-------------------------|------|
| Species | Desmodesmus subspicatus | |
| ErC50 | 0,29 | mg/l |
| Duration of exposure | 72 | h |
| Method | OECD 201 | |

Bisphenol A, ethoxylated, dimethacrylate

| | | |
|----------------------|--|------|
| Species | Pseudokirchneriella subcapitata | |
| EC50 | > 100 | mg/l |
| Duration of exposure | 72 | h |
| Method | OECD 201 | |
| Remarks | Test conducted with a similar formulation. | |

2,2'-ethylenedioxydiethyl dimethacrylate

| | | |
|----------------------|---------------------------------|------|
| Species | Pseudokirchneriella subcapitata | |
| ErC50 | > 100 | mg/l |
| Duration of exposure | 72 | h |
| Method | OECD 201 | |

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diylbismethacrylate

| | | |
|----------------------|-------------------------|------|
| Species | Scenedesmus subspicatus | |
| EC50 | > 0,68 | mg/l |
| Duration of exposure | 72 | h |
| Method | OECD 201 | |

Bacteria toxicity (Components)**Quaternary ammonium compounds, tri-C8-C10-alkylmethyl, chlorides**

| | | |
|----------------------|------------------|------|
| Species | activated sludge | |
| EC50 | 18 | mg/l |
| Duration of exposure | 3 | h |
| Method | OECD 209 | |

Bisphenol A, ethoxylated, dimethacrylate

| | | |
|----------------------|--|------|
| Species | activated sludge | |
| NOEC | 14,3 | mg/l |
| Duration of exposure | 28 | d |
| Remarks | Test conducted with a similar formulation. | |

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diylbismethacrylate

| | | |
|----------------------|------------------|------|
| Species | activated sludge | |
| NOEC | >= 36,1 | mg/l |
| Duration of exposure | 14 | d |

12.2. Persistence and degradability**General information**

not determined

Biodegradability (Components)**Bisphenol A, ethoxylated, dimethacrylate**

| | | |
|------------------|--|---|
| Value | 24 | % |
| Duration of test | 28 | d |
| evaluation | readily degradable | |
| Remarks | Test conducted with a similar formulation. | |

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diylbismethacrylate

| | | |
|------------------|------------------------|---|
| Value | 22 | % |
| Duration of test | 28 | d |
| evaluation | not readily degradable | |



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Ready degradability (Components)**Quaternary ammonium compounds, tri-C8-C10-alkylmethyl, chlorides**

| | | |
|------------------|----|---|
| Value | 0 | % |
| Duration of test | 28 | d |

2,2'-ethylenedioxydiethyl dimethacrylate

| | | |
|------------------|----|---|
| Value | 85 | % |
| Duration of test | 28 | d |

Remarks The product is readily biodegradable according to OECD criteria.

12.3. Bioaccumulative potential**General information**

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Octanol/water partition coefficient (log Pow) (Components)**Quaternary ammonium compounds, tri-C8-C10-alkylmethyl, chlorides**

| | | | |
|---------|------------------|----|------|
| log Pow | 2,92 | to | 3,81 |
| Source | calculated value | | |

Bisphenol A, ethoxylated, dimethacrylate

| | |
|---------|------|
| log Pow | 4,39 |
|---------|------|

2,2'-ethylenedioxydiethyl dimethacrylate

| | |
|---------|-----|
| log Pow | 2,3 |
|---------|-----|

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate

| | | |
|-------------|------|----|
| log Pow | 3,39 | |
| Temperature | 20 | °C |

12.4. Mobility in soil**General information**

not determined

Mobility in soil (Components)**2,2'-ethylenedioxydiethyl dimethacrylate****12.5. Results of PBT and vPvB assessment****General information**

not determined

Results of PBT and vPvB assessment

The product contains no PBT substances
The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information**

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Must not be disposed together with household garbage.
Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

SECTION 14: Transport information

| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|----------------------------------|--|---|---|
| 14.1. UN number | The product does not constitute a hazardous substance in land transport. | The product does not constitute a hazardous substance in sea transport. | The product does not constitute a hazardous substance in air transport. |
| 14.2. UN proper shipping name | - | - | - |
| 14.3. Transport hazard class(es) | | - | - |
| Label | | | |
| 14.4. Packing group | | - | - |
| 14.5. Environmental hazards | - | no | - |

SECTION 15: Regulatory information

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

| | |
|-------|---|
| H301 | Toxic if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H361d | Suspected of damaging the unborn child. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

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CLP categories listed in Chapter 3

| | |
|-------------------|---|
| Acute Tox. 3 | Acute toxicity, Category 3 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic, Category 2 |
| Aquatic Chronic 4 | Hazardous to the aquatic environment, chronic, Category 4 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Corr. 1C | Skin corrosion, Category 1C |
| Skin Sens. 1 | Skin sensitization, Category 1 |
| Skin Sens. 1B | Skin sensitization, Category 1B |

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.