

Trade name: FotoDent IBT

Substance number: 9702IBT

Version: 1 / GB

Date revised: 06.06.2023

Replaces Version: - / GB

Print date: 27.11.2023

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

1.1. Product identifier

FotoDent IBT

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

Use of the substance/preparation

Material for the manufacturing of dental indirect bonding trays

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 Irrit. 2 H315

Skin Sens. 1A H317

Repr. 2 H361d

Aquatic Chronic 2 H411

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



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Hazard statements

| | |
|-------|--|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H361d | Suspected of damaging the unborn child. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary statements

| | |
|-----------|--|
| P201 | Obtain special instructions before use. |
| 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. |
| P308+P313 | IF exposed or concerned: 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 | (5-ethyl-1,3-dioxan-5-yl)methyl acrylate; 2-phenoxyethyl methacrylate; 2-Hydroxyethyl acrylate; aliphatic urethane triacrylate |
|----------|--|

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****(5-ethyl-1,3-dioxan-5-yl)methyl acrylate**

| | |
|--|------------------------|
| CAS No. | 66492-51-1 |
| EINECS no. | 266-380-7 |
| Registration no. | 01-2119976303-36 |
| Concentration | >= 25 < 50 % |
| Classification (Regulation (EC) No. 1272/2008) | |
| | Skin Irrit. 2 H315 |
| | Skin Sens. 1 H317 |
| | Aquatic Chronic 2 H411 |

2-phenoxyethyl methacrylate

| | |
|--|------------------------|
| CAS No. | 10595-06-9 |
| EINECS no. | 234-201-1 |
| Registration no. | 01-2120752383-55 |
| Concentration | >= 25 < 50 % |
| Classification (Regulation (EC) No. 1272/2008) | |
| | Skin Sens. 1A H317 |
| | Aquatic Chronic 2 H411 |
| | Repr. 2 H361d |

Isodecylmethacrylate

| | |
|------------------|------------------|
| CAS No. | 29964-84-9 |
| EINECS no. | 249-978-2 |
| Registration no. | 01-2119894925-17 |



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| | | | | | |
|--|----|-------------------|---|------|---|
| Concentration | >= | 2,5 | < | 10 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | | | |
| | | Aquatic Chronic 1 | | H410 | |
| | | Skin Irrit. 2 | | H315 | |
| | | Eye Irrit. 2 | | H319 | |
| | | STOT SE 3 | | H335 | |

aliphatic urethane triacrylate

| | | | | | |
|--|----|-------------------|---|------|---|
| Concentration | >= | 1 | < | 10 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | | | |
| | | Skin Sens. 1A | | H317 | |
| | | Aquatic Chronic 4 | | H413 | |

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

| | | | | | |
|--|------------------|---------|---|-------|---|
| CAS No. | 75980-60-8 | | | | |
| EINECS no. | 278-355-8 | | | | |
| Registration no. | 01-2119972295-29 | | | | |
| Concentration | >= | 1 | < | 3 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | | | |
| | | Repr. 2 | | H361f | |

2-Hydroxyethyl acrylate

| | | | | | |
|--|------------------|-----------------|---|------|---|
| CAS No. | 818-61-1 | | | | |
| EINECS no. | 212-454-9 | | | | |
| Registration no. | 01-2119459345-34 | | | | |
| Concentration | >= | 0,2 | < | 1 | % |
| Classification (Regulation (EC) No. 1272/2008) | | | | | |
| | | Acute Tox. 3 | | H311 | |
| | | Skin Corr. 1B | | H314 | |
| | | Skin Sens. 1 | | H317 | |
| | | Aquatic Acute 1 | | H400 | |

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

| | | | | |
|-----|--------------|------|--------|-------|
| | Skin Sens. 1 | H317 | >= 0,2 | % |
| ATE | dermal | | 1.000 | mg/kg |

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note D

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

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists.

After eye contact

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

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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**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



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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

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)

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

| | | |
|----------------------|--------------------------------|---------|
| 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 | 0,233 | mg/kg/d |

| | | |
|----------------------|--------------------------------|-------------------|
| 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 | 0,145 | mg/m ³ |



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| | | |
|----------------------|--------------------------------|---------|
| 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 | 0,0833 | mg/kg/d |

| | | |
|----------------------|--------------------------------|---------|
| 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 | 0,0833 | mg/kg/d |

2-Hydroxyethyl acrylate

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 2,4 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | General Population | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 1,2 | mg/m ³ |

Predicted No Effect Concentration (PNEC)**Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

| | | |
|---------------|-----------|------|
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,00014 | mg/l |

| | | |
|---------------|---------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 0,115 | mg/kg |

| | | |
|---------------|-----------------|-------|
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 0,0115 | mg/kg |

| | | |
|---------------|--------|-------|
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0,0222 | mg/kg |

2-Hydroxyethyl acrylate

| | | |
|---------------|------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,017 | mg/l |

| | | |
|---------------|--------|------|
| Type of value | PNEC | |
| Type | Marine | |
| Concentration | 0,002 | mg/l |

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| | | | |
|---------------|------------------------------|--|-------|
| Type of value | PNEC | | |
| Type | Water (intermittent release) | | |
| Concentration | 0,0361 | | mg/l |
| Type of value | PNEC | | |
| Type | Freshwater sediment | | |
| Concentration | 0,064 | | mg/kg |
| Type of value | PNEC | | |
| Type | Marine sediment | | |
| Concentration | 0,006 | | mg/kg |
| Type of value | PNEC | | |
| Type | Soil | | |
| Concentration | 0,003 | | mg/kg |
| Type of value | PNEC | | |
| Type | Sewage treatment plant (STP) | | |
| Concentration | 10 | | 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 |
| Colour | clear, transparent |
| Odour | characteristic |
| Melting point | |



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Remarks not determined

Freezing point

Remarks not determined

Boiling point or initial boiling point and boiling range

Value 149 °C

Flammability

evaluation not determined

Upper and lower explosive limits

Remarks not determined

Flash point

Value 100 °C

Method closed cup

Ignition temperature

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 1,07 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



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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

None known

10.6. Hazardous decomposition products

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)

Isodecylmethacrylate

| | | |
|---------|------------|-------|
| Species | rat (male) | |
| LD50 | > 5000 | mg/kg |

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

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

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate

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

2-phenoxyethyl methacrylate

| | | |
|---------|--|-------|
| Species | rat | |
| LD50 | > 5000 | mg/kg |
| Method | OECD 401 | |
| Remarks | Test conducted with a similar formulation. | |

2-Hydroxyethyl acrylate

| | | |
|---------|-----|-------|
| Species | rat | |
| LD50 | 540 | mg/kg |

aliphatic urethane triacrylate

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

Acute dermal toxicity

| | | |
|--------|--|-------|
| ATE | > 10.000 | mg/kg |
| Method | calculated value (Regulation (EC) No. 1272/2008) | |



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Acute dermal toxicity (Components)**Isodecylmethacrylate**

| | | | |
|---------|--------|------|-------|
| Species | rabbit | | |
| LD50 | > | 3000 | mg/kg |

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

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

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate

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

2-phenoxyethyl methacrylate

| | | | |
|---------|--|------|-------|
| Species | rat | | |
| LD50 | > | 2000 | mg/kg |
| Method | 92/69/EEC, B.3 | | |
| Remarks | Test conducted with a similar formulation. | | |

2-Hydroxyethyl acrylate

| | | | |
|---------|----------|------|-------|
| Species | rat | | |
| LD50 | > | 1000 | mg/kg |
| Method | OECD 402 | | |

aliphatic urethane triacrylate

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

Acute inhalational toxicity

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

Acute inhalative toxicity (Components)**Isodecylmethacrylate**

| | | | |
|----------------------|-----|-----|------|
| Species | rat | | |
| LCLo | > | 0,9 | mg/l |
| Duration of exposure | 1 | h | |

Skin corrosion/irritation

| | |
|------------|--------------------------------------|
| evaluation | irritant |
| Remarks | The classification criteria are met. |

Skin corrosion/irritation (Components)**Isodecylmethacrylate**

| | |
|------------|-------------------|
| Species | rabbit |
| evaluation | slightly irritant |

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate

| | | | |
|----------------------|----------|---|--|
| Species | rabbit | | |
| Duration of exposure | 4 | h | |
| evaluation | irritant | | |
| Method | OECD 404 | | |

2-phenoxyethyl methacrylate

| | |
|------------|---|
| Species | rabbit |
| evaluation | slight irritant effect - does not require labelling |
| Remarks | Test conducted with a similar formulation. |

2-Hydroxyethyl acrylate

| | |
|------------|-----------|
| Species | rabbit |
| evaluation | corrosive |



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Serious eye damage/irritation

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

Serious eye damage/irritation (Components)**2-phenoxyethyl methacrylate**Species rabbit
evaluation slight irritant effect - does not require labelling
Remarks Test conducted with a similar formulation.**2-Hydroxyethyl acrylate**Species rabbit
evaluation corrosive**Sensitization**evaluation May cause sensitization by skin contact.
Remarks The classification criteria are met.**Sensitization (Components)****Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**Route of exposure dermal
Species mouse
evaluation May cause sensitization by skin contact.**(5-ethyl-1,3-dioxan-5-yl)methyl acrylate**Route of exposure dermal
Species mouse
evaluation sensitizing**2-phenoxyethyl methacrylate**Route of exposure dermal
Species guinea pig
evaluation sensitizing
Method OECD 406
Remarks Test conducted with a similar formulation.**2-Hydroxyethyl acrylate**Route of exposure dermal
Species mouse
evaluation sensitizing**aliphatic urethane triacrylate**Route of exposure dermal
Species guinea pig
evaluation sensitizing**Subacute, subchronic, chronic toxicity**

Remarks not determined

Mutagenicity

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

Reproductive toxicityevaluation Suspected of damaging the unborn child.
Remarks The classification criteria are met.**Reproduction toxicity (Components)****Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

evaluation Suspected of damaging fertility.

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)



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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

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

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

The product does not contain a substance that has endocrine disrupting properties with respect to 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)**Isodecylmethacrylate**

| | | |
|----------------------|---------------------------------------|------|
| Species | golden orfe (<i>Leuciscus idus</i>) | |
| LC50 | 470 | mg/l |
| Duration of exposure | 48 | h |
| Method | DIN 38412 / Part 15 | |

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

| | | |
|----------------------|---------------------------------|------|
| Species | carp (<i>Cyprinus carpio</i>) | |
| LC50 | 1,4 | mg/l |
| Duration of exposure | 96 | h |
| Method | OECD 203 | |

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate

| | | |
|--------|----------|------|
| LC50 | 4 | mg/l |
| Method | OECD 203 | |

2-phenoxyethyl methacrylate

| | | |
|----------------------|---------------------------------------|------|
| Species | golden orfe (<i>Leuciscus idus</i>) | |
| EC50 | appr. 10 | mg/l |
| Duration of exposure | 72 | h |
| Method | OECD 203 | |

2-Hydroxyethyl acrylate

| | | |
|----------------------|---|------|
| Species | Fathead minnow (<i>Pimephales promelas</i>) | |
| LC50 | 4,8 | mg/l |
| Duration of exposure | 96 | h |

aliphatic urethane triacrylate

| | | |
|----------------------|---|------|
| Species | zebra fish (<i>Brachydanio rerio</i>) | |
| EC50 | > 100 | mg/l |
| Duration of exposure | 96 | h |
| Method | OECD 203 | |



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Daphnia toxicity (Components)**Isodecylmethacrylate**

| | | | |
|----------------------|---------------|---|------|
| Species | Daphnia magna | | |
| NOEC | 54,2 | | µg/l |
| Duration of exposure | 21 | d | |
| Method | OECD 211 | | |

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

| | | | |
|----------------------|---------------|---|------|
| Species | Daphnia magna | | |
| EC50 | 3,53 | | mg/l |
| Duration of exposure | 48 | h | |
| Method | OECD 202 | | |

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate

| | | | |
|----------------------|----------|---|------|
| LC50 | 20 | | mg/l |
| Duration of exposure | 48 | h | |
| Method | OECD 202 | | |

2-phenoxyethyl methacrylate

| | | | |
|----------------------|--|---|------|
| Species | Daphnia magna | | |
| EC50 | 1,21 | | mg/l |
| Duration of exposure | 48 | h | |
| Method | OECD 202 | | |
| Remarks | Test conducted with a similar formulation. | | |

2-phenoxyethyl methacrylate

| | | | |
|----------------------|--|---|------|
| Species | Daphnia magna | | |
| NOEC | 1 | | mg/l |
| Duration of exposure | 21 | d | |
| Remarks | Test conducted with a similar formulation. | | |

2-Hydroxyethyl acrylate

| | | | |
|----------------------|---------------|---|------|
| Species | Daphnia magna | | |
| EC50 | 9,3 | | mg/l |
| Duration of exposure | 48 | h | |
| Method | OECD 202 | | |

2-Hydroxyethyl acrylate

| | | | |
|----------------------|---------------|---|------|
| Species | Daphnia magna | | |
| NOEC | 0,86 | | mg/l |
| Duration of exposure | 21 | d | |
| Method | OECD 211 | | |

aliphatic urethane triacrylate

| | | | |
|----------------------|---------------|---|------|
| Species | Daphnia magna | | |
| EC50 | > 100 | | mg/l |
| Duration of exposure | 48 | h | |
| Method | OECD 202 | | |

Algae toxicity (Components)**Isodecylmethacrylate**

| | | | |
|----------------------|-------------------------|---|------|
| Species | Scenedesmus subspicatus | | |
| NOEC | 12,0 | | µg/l |
| Duration of exposure | 72 | h | |
| Method | OECD 201 | | |

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

| | | | |
|----------------------|---------------------------------|---|------|
| Species | Pseudokirchneriella subcapitata | | |
| EC50 | > 2,01 | | mg/l |
| Duration of exposure | 72 | h | |
| Method | OECD 201 | | |

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate



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| | | | |
|----------------------|----------|---|------|
| EC50 | 34 | | mg/l |
| Duration of exposure | 72 | h | |
| Method | OECD 201 | | |

2-phenoxyethyl methacrylate

| | | | |
|----------------------|-------------------------|---|------|
| Species | Scenedesmus subspicatus | | |
| EC50 | 4,4 | | mg/l |
| Duration of exposure | 72 | h | |
| Method | ISO 8692 | | |

2-Hydroxyethyl acrylate

| | | | |
|----------------------|---------------------------------|---|------|
| Species | Pseudokirchneriella subcapitata | | |
| ErC50 | 6 | | mg/l |
| Duration of exposure | 72 | h | |
| Method | OECD 201 | | |

aliphatic urethane triacrylate

| | | | |
|----------------------|---------------------------------|---|------|
| Species | Pseudokirchneriella subcapitata | | |
| EC50 | > 100 | | mg/l |
| Duration of exposure | 72 | h | |
| Method | OECD 201 | | |

Bacteria toxicity (Components)**Isodecylmethacrylate**

| | | | |
|--------|----------|--|------|
| EC10 | 500 | | mg/l |
| Method | OECD 209 | | |

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

| | | | |
|----------------------|------------------|---|------|
| Species | activated sludge | | |
| EC50 | > 1000 | | mg/l |
| Duration of exposure | 3 | h | |
| Method | OECD 209 | | |

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate

| | | | |
|---------|------------------|--|------|
| Species | activated sludge | | |
| EC10 | 300 | | mg/l |
| Method | OECD 209 | | |

2-phenoxyethyl methacrylate

| | | | |
|----------------------|------------------|---|------|
| Species | activated sludge | | |
| EC50 | 177 | | mg/l |
| Duration of exposure | 3 | h | |

2-Hydroxyethyl acrylate

| | | | |
|----------------------|------------------|---|------|
| Species | activated sludge | | |
| EC10 | > 100 | | mg/l |
| Duration of exposure | 72 | h | |

12.2. Persistence and degradability**General information**

not determined

Biodegradability (Components)**Isodecylmethacrylate**

| | | | |
|-----------------------------|------------------------|---|---|
| Value | 62 | | % |
| Duration of test evaluation | 28 | d | |
| | not readily degradable | | |

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

| | | | | |
|-----------------------------|------------------------|----|----|---|
| Value | < 0 | to | 10 | % |
| Duration of test evaluation | 28 | d | | |
| | not readily degradable | | | |

2-phenoxyethyl methacrylate



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evaluation biodegradable

aliphatic urethane triacrylate

evaluation not readily degradable

Ready degradability (Components)**(5-ethyl-1,3-dioxan-5-yl)methyl acrylate**

Value 28 %

Duration of test 28 d

2-Hydroxyethyl acrylate

Value 80 %

Duration of test 28 d

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)**Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

log Pow 3,1

Temperature 23 °C

2-phenoxyethyl methacrylate

log Pow 3,14

2-Hydroxyethyl acrylate

log Pow -0,17

Temperature 25 °C

aliphatic urethane triacrylate

log Pow 4,23

Temperature 20 °C

Bioconcentration factor (BCF) (Components)**Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

BCF 47 to 55

Concentration 0,1 mg/l

Duration of exposure 8 Weeks

Medium Freshwater

Species carp (Cyprinus carpio)

12.4. Mobility in soil**General information**

not determined

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.



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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.

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

Trade name: FotoDent IBT

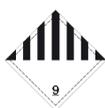
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| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|----------------------------------|---|--|---|
| 14.1. UN number or ID number | 3082 | 3082 | 3082 |
| 14.2. UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isodecylmethacrylate, (5-ethyl-1,3-dioxan-5-yl)methyl acrylate) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isodecylmethacrylate, (5-ethyl-1,3-dioxan-5-yl)methyl acrylate) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isodecylmethacrylate, (5-ethyl-1,3-dioxan-5-yl)methyl acrylate) |
| 14.3. Transport hazard class(es) | 9 | 9 | 9 |
| Label |  |  |  |
| 14.4. Packing group | III | III | III |
| Remarks | The product is not subject to any other provisions of ADR provided packaging of not more than 5 l / 5 kg | The product can be transported in accordance with IMDG Code paragraph 2.10.2.7, provided packaging not more than 5 l / 5 kg. | The product is not subject to any other provisions of IATA provided packaging of not more than 5 l / 5 kg (A197) |
| Limited Quantity | 5 l | 5 l | |
| Transport category | 3 | | |
| 14.5. Environmental hazards | - | | |
| Tunnel restriction code | - | | |

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Other information

All components are contained in the TSCA inventory or exempted.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

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

Skin Irrit. 2

H315

Calculation method



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| | | |
|-------------------|-------|--------------------|
| Skin Sens. 1A | H317 | Calculation method |
| Repr. 2 | H361d | Calculation method |
| Aquatic Chronic 2 | H411 | Calculation method |

Hazard statements listed in Chapter 2/3

| | |
|-------|---|
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H361d | Suspected of damaging the unborn child. |
| H361f | Suspected of damaging fertility. |
| 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. |

CLP categories listed in Chapter 2/3

| | |
|-------------------|--|
| 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 |
| Eye Irrit. 2 | Eye irritation, Category 2 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Corr. 1B | Skin corrosion, Category 1B |
| Skin Irrit. 2 | Skin irritation, Category 2 |
| Skin Sens. 1 | Skin sensitization, Category 1 |
| Skin Sens. 1A | Skin sensitization, Category 1A |
| STOT SE 3 | Specific target organ toxicity - single exposure, Category 3 |

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.