

Trade name: Plaquit

Substance number: 81600

Version: 2 / GB

Date revised: 10.07.2025

Replaces Version: 1 / GB

Print date: 10.07.2025

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

1.1. Product identifier

Plaquit

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

Use of the substance/preparation

Light-curing lacquer for plastic dental applications

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Dentamid GmbH

Max-Planck-Straße 31

DE-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 for this SDS sicherheitsdatenblatt@dreve.com

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)

Flam. Liq. 2 H225

Skin Irrit. 2 H315

Eye Dam. 1 H318

Skin Sens. 1 H317

Repr. 1B H360Fd.

STOT SE 3 H335

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

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**Signal word**

Danger

Hazard statements ***

| | |
|---------|---|
| H225 | Highly flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H317 | May cause an allergic skin reaction. |
| H360Fd. | May damage fertility. Suspected of damaging the unborn child. |
| H335 | May cause respiratory irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements

| | |
|----------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a POISON CENTER or doctor. |

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

| | |
|----------|--|
| contains | 2-Propenoic acid, reaction products with pentaerythritol; Methyl methacrylate monomer, stabilized; Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide |
|----------|--|

Supplemental information**Further supplemental information *****

Restricted to professional users

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 *******Methyl methacrylate monomer, stabilized**

| | | | | |
|--|------------------|------|---|--|
| CAS No. | 80-62-6 | | | |
| EINECS no. | 201-297-1 | | | |
| Registration no. | 01-2119452498-28 | | | |
| Concentration | >= 25 | < 50 | % | |
| Classification (Regulation (EC) No. 1272/2008) | Flam. Liq. 2 | H225 | | |
| | Skin Irrit. 2 | H315 | | |



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Skin Sens. 1 H317
STOT SE 3 H335

Additional remarks:

CLP

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

2-Propenoic acid, reaction products with pentaerythritol

CAS No. 1245638-61-2

EINECS no. 629-850-6

Registration no. 01-2119490003-49

Concentration ≥ 10 < 19 %

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

Acute Tox. 4 H302

Skin Irrit. 2 H315

Eye Dam. 1 H318

Skin Sens. 1 H317

Aquatic Chronic 2 H411

ATE oral 540 mg/kg

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

CAS No. 75980-60-8

EINECS no. 278-355-8

Registration no. 01-2119972295-29

Concentration $\geq 2,5$ < 10 %

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

Repr. 1B H360Fd.

Skin Sens. 1B H317

Aquatic Chronic 2 H411

Supplemental information

The substance is contained in the Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

2-hydroxy-2-methylpropiophenone

CAS No. 7473-98-5

EINECS no. 231-272-0

Registration no. 01-2119472306-39

Concentration ≥ 1 < 1,7 %

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

Acute Tox. 4 H302

Aquatic Chronic 3 H412

ATE oral 1.694 mg/kg

Acrylic acid

CAS No. 79-10-7

EINECS no. 201-177-9

Registration no. 01-2119452449-31

Concentration $\geq 0,1$ < 1 %

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

Flam. Liq. 3 H226

Acute Tox. 4 H302

Acute Tox. 4 H312

Acute Tox. 4 H332

Skin Corr. 1A H314

Aquatic Acute 1 H400

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

STOT SE 3 H335 ≥ 1 %

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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.

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.

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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

Exposure limit values

Methyl methacrylate monomer, stabilized

| | | |
|---------------------------|-----|--------|
| Value | 50 | ppm(V) |
| Short term exposure limit | 100 | ppm(V) |

Methyl methacrylate monomer, stabilized

| | | | | |
|---------------------------|-----|-------------------|-----|--------|
| Value | 208 | mg/m ³ | 50 | ppm(V) |
| Short term exposure limit | 416 | mg/m ³ | 100 | ppm(V) |

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Methyl methacrylate monomer, stabilized

| | |
|----------------------|---|
| Reference substance | Methyl methacrylate monomer, stabilized |
| 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 | 348,4 mg/m ³ |

| | |
|----------------------|---|
| Type of value | Methyl methacrylate monomer, stabilized |
| Reference group | Derived No Effect Level (DNEL) |
| Reference group | Worker |
| Duration of exposure | Long term |
| Route of exposure | inhalative |
| Mode of action | Local effects |
| Concentration | 208 mg/m ³ |

| | |
|----------------------|--------------------------------|
| Type of value | Derived No Effect Level (DNEL) |
| Reference group | Worker |
| Duration of exposure | Lifetime |
| Route of exposure | inhalative |
| Concentration | 416 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 | 13,67 mg/kg |

| | |
|----------------------|--------------------------------|
| Type of value | Derived No Effect Level (DNEL) |
| Reference group | Worker |
| Duration of exposure | Long term |
| Route of exposure | dermal |
| Mode of action | Local effects |
| Concentration | 1,5 mg/cm ² |

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



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| | | |
|----------------------|------------------|-------------------|
| Duration of exposure | Long term | |
| Route of exposure | oral | |
| Mode of action | Systemic effects | |
| Concentration | 74,3 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 104 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short term | |
| Route of exposure | inhalative | |
| Concentration | 208 | 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 | 8,2 | mg/kg |

| | | |
|----------------------|--------------------------------|--------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Local effects | |
| Concentration | 1,5 | mg/cm ² |

| | | |
|----------------------|--------------------------------|---------|
| 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 | 8,2 | mg/kg/d |

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 |

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

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| | | |
|----------------------|------------------|---------|
| 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 |

Acrylic acid

| | | |
|----------------------|--------------------------------|-------------------|
| 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 | 30 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Short term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 30 | mg/m ³ |

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

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

| | | |
|----------------------|--------------------------------|-------------------|
| 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 | 30 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Short term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 30 | mg/m ³ |

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

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| | | |
|----------------------|--------------------------------|-------------------|
| Reference group | General Population | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 3,6 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 3,6 | 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 | 0,4 | mg/kg/d |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Short term | |
| Route of exposure | oral | |
| Mode of action | Local effects | |
| Concentration | 1,2 | mg/kg/d |

Predicted No Effect Concentration (PNEC)**Methyl methacrylate monomer, stabilized**

| | | |
|---------------------|---|---------|
| Reference substance | Methyl methacrylate monomer, stabilized | |
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,94 | mg/l |
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 0,094 | mg/l |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 1,48 | mg/kg |
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 10,2 | mg/kg |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 10 | mg/l |
| Type of value | PNEC | |
| Type | Man via the environment | |
| Concentration | 8,2 | mg/kg/d |
| Type of value | PNEC | |
| Type | Marine sediment | |

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| | | |
|---------------|-----|-------|
| Concentration | 1,2 | mg/kg |
|---------------|-----|-------|

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-Propenoic acid, reaction products with pentaerythritol

| | | |
|---------------|------------------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,003 | mg/l |
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 1,73 | mg/kg |
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 0,173 | mg/kg |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 10 | mg/l |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 0,34 | mg/kg |

Acrylic acid

| | | |
|---------------|------------------------------|-------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,003 | mg/l |
| Type of value | PNEC | |
| Type | Marine | |
| Concentration | 0,3 | µg/l |
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 0,9 | mg/l |
| Type of value | PNEC | |
| Type | Freshwater sediment | |
| Concentration | 0,024 | mg/kg |

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| | | |
|---------------|---------------------|-------|
| Type of value | PNEC | |
| Type | Marine sediment | |
| Concentration | 0,002 | mg/kg |
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 1 | mg/kg |
| Type of value | PNEC | |
| Type | Secondary poisoning | |
| Concentration | 0,03 | mg/kg |

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 Butyl rubber

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 | colourless | |
| Odour | characteristic | |
| Melting point | | |
| Remarks | not determined | |
| Freezing point | | |
| Remarks | not determined | |
| Boiling point or initial boiling point and boiling range | | |
| Value | 101 | °C |
| Flammability | | |
| evaluation | Not applicable | |

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Upper and lower explosive limits

| | | |
|-----------------------|------|------|
| Lower explosion limit | 2,1 | %(V) |
| Upper explosion limit | 12,5 | %(V) |

Flash point

| | | |
|--------|------------|----|
| Value | 10 | °C |
| Method | closed cup | |

Auto-ignition temperature

| | | |
|-------|-----|----|
| Value | 430 | °C |
|-------|-----|----|

Decomposition temperature

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

Self Accelerating Decomposition / Polymerization Temperature (SADT/SAPT)

| | | |
|-------|------|----|
| Value | > 50 | °C |
|-------|------|----|

pH value

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

Viscosity**dynamic**

| | | | |
|-------------|----|----|-------|
| Value | 20 | | mPa.s |
| Temperature | 23 | °C | |

Solubility(ies)

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

Partition coefficient n-octanol/water (log value)

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

Vapour pressure

| | | | |
|-------------|----|----|-----|
| Value | 47 | | hPa |
| Temperature | 20 | °C | |

Density and/or relative density

| | | | |
|-------------|------|----|-------------------|
| Value | 0,98 | | g/cm ³ |
| Temperature | 20 | °C | |

Relative vapour density

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

9.2. Other information**Odour threshold**

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

Evaporation rate

| | |
|---------|----------------|
| 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

| | | |
|--------|--|-------|
| ATE | 4.331,98 | mg/kg |
| | 25 | |
| Method | calculated value according to GHS (e.g see UN GHS) | |

Acute oral toxicity (Components)

Methyl methacrylate monomer, stabilized

| | | |
|---------|------------|-------|
| Species | rat | |
| LD50 | appr. 7900 | mg/kg |

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

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

2-Propenoic acid, reaction products with pentaerythritol

| | | |
|---------|----------|-------|
| Species | rat | |
| LD50 | 540 | mg/kg |
| Method | OECD 401 | |

2-hydroxy-2-methylpropiophenone

| | | |
|---------|----------|-------|
| Species | rat | |
| LD50 | 1694 | mg/kg |
| Method | OECD 401 | |

Acrylic acid

| | | |
|---------|--------------------|-------|
| Species | rat (male) | |
| LD50 | appr. 1000 to 2000 | mg/kg |
| Method | OECD 423 | |

Acute dermal toxicity

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

Acute dermal toxicity (Components)

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Methyl methacrylate monomer, stabilized

| | | |
|---------|----------|-------|
| Species | rabbit | |
| LD50 | > 5000 | mg/kg |
| Method | OECD 402 | |

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

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

2-Propenoic acid, reaction products with pentaerythritol

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

2-hydroxy-2-methylpropiophenone

| | | |
|---------|----------|-------|
| Species | rat | |
| LD50 | 6929 | mg/kg |
| Method | OECD 402 | |

Acrylic acid

| | | |
|---------|----------|-------|
| Species | rabbit | |
| 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)**Methyl methacrylate monomer, stabilized**

| | | |
|----------------------|--------|------|
| Species | rat | |
| LC50 | 29,8 | mg/l |
| Duration of exposure | 4 | h |
| Administration/Form | Vapors | |

Acrylic acid

| | | |
|----------------------|----------|------|
| Species | rat | |
| LC50 | > 5,1 | mg/l |
| Duration of exposure | 4 | h |
| Administration/Form | Vapors | |
| Method | OECD 403 | |

Skin corrosion/irritation

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

Skin corrosion/irritation (Components)**Methyl methacrylate monomer, stabilized**

| | |
|------------|----------|
| Species | Human |
| evaluation | irritant |

2-Propenoic acid, reaction products with pentaerythritol

| | |
|------------|----------|
| Species | rabbit |
| evaluation | irritant |
| Method | OECD 404 |

Acrylic acid

| | |
|------------|-----------|
| Species | rabbit |
| evaluation | corrosive |
| Method | OECD 404 |

Serious eye damage/irritation

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



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Remarks The classification criteria are met.

Serious eye damage/irritation (Components)**2-Propenoic acid, reaction products with pentaerythritol**

Species rabbit
evaluation corrosive
Method OECD 405

Acrylic acid

Species rabbit
evaluation corrosive

Sensitization

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

Sensitization (Components)**Methyl methacrylate monomer, stabilized**

Route of exposure dermal
Species mouse
evaluation sensitizing
Method OECD 429

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

Route of exposure dermal
Species mouse
evaluation May cause sensitization by skin contact.

2-Propenoic acid, reaction products with pentaerythritol

Species guinea pig
evaluation non-sensitizing
Method OECD 406

2-Propenoic acid, reaction products with pentaerythritol

Species Human
evaluation Possible sensitization potential with human beings.

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

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

Reproductive toxicity

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)**Single exposure**

Remarks The classification criteria are met.
evaluation May cause respiratory irritation.

Repeated exposure

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

Specific Target Organ Toxicity (STOT) (Components)**Methyl methacrylate monomer, stabilized**

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Single exposure

evaluation

May cause respiratory irritation.

Route of exposure inhalative

Acrylic acid**Single exposure**

evaluation

May cause respiratory irritation.

Route of exposure inhalative

Species

rat

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)**Methyl methacrylate monomer, stabilized**

| | | | |
|----------------------|--|---|------|
| Species | rainbow trout (<i>Oncorhynchus mykiss</i>) | | |
| LC50 | 85 | | mg/l |
| Duration of exposure | 96 | h | |

Methyl methacrylate monomer, stabilized

| | | | |
|----------------------|---|---|------|
| Species | zebra fish (<i>Brachydanio rerio</i>) | | |
| NOEC | 9,4 | | mg/l |
| Duration of exposure | 35 | d | |
| Method | OECD 210 | | |

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 | | |

2-Propenoic acid, reaction products with pentaerythritol

| | | | |
|----------------------|---------------------------------|---|------|
| Species | carp (<i>Cyprinus carpio</i>) | | |
| LC50 | 3,2 | | mg/l |
| Duration of exposure | 96 | h | |
| Method | OECD 203 | | |

2-hydroxy-2-methylpropiophenone

| | | | |
|----------------------|---------------------------------------|---|------|
| Species | golden orfe (<i>Leuciscus idus</i>) | | |
| EC50 | 160 | | mg/l |
| Duration of exposure | 48 | h | |

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Acrylic acid

| | | | |
|----------------------|--|---|------|
| Species | rainbow trout (<i>Oncorhynchus mykiss</i>) | | |
| LC50 | 27 | | mg/l |
| Duration of exposure | 96 | h | |

Acrylic acid

| | | | |
|----------------------|------------------------|---|------|
| Species | <i>Oryzias latipes</i> | | |
| NOEC | >= 10,1 | | mg/l |
| Duration of exposure | 45 | d | |
| Method | OECD 210 | | |

Daphnia toxicity (Components)**Methyl methacrylate monomer, stabilized**

| | | | |
|----------------------|----------------------|---|------|
| Species | <i>Daphnia magna</i> | | |
| EC50 | 69 | | mg/l |
| Duration of exposure | 48 | h | |

Methyl methacrylate monomer, stabilized

| | | | |
|----------------------|----------------------|---|------|
| Species | <i>Daphnia magna</i> | | |
| NOEC | 37 | | mg/l |
| Duration of exposure | 21 | d | |
| Method | OECD 211 | | |

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

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

2-Propenoic acid, reaction products with pentaerythritol

| | | | |
|----------------------|----------------------|---|------|
| Species | <i>Daphnia magna</i> | | |
| EC50 | 13 | | mg/l |
| Duration of exposure | 48 | h | |
| Method | OECD 202 | | |

2-hydroxy-2-methylpropiophenone

| | | | |
|----------------------|----------------------|---|------|
| Species | <i>Daphnia magna</i> | | |
| EC50 | 119 | | mg/l |
| Duration of exposure | 48 | h | |
| Method | OECD 202 | | |

Acrylic acid

| | | | |
|----------------------|----------------------|---|------|
| Species | <i>Daphnia magna</i> | | |
| EC50 | 95 | | mg/l |
| Duration of exposure | 48 | h | |

Acrylic acid

| | | | |
|----------------------|----------------------|---|------|
| Species | <i>Daphnia magna</i> | | |
| NOEC | 19 | | mg/l |
| Duration of exposure | 21 | d | |

Algae toxicity (Components)**Methyl methacrylate monomer, stabilized**

| | | | |
|----------------------|--|---|------|
| Species | <i>Pseudokirchneriella subcapitata</i> | | |
| EC50 | > 110 | | mg/l |
| Duration of exposure | 72 | h | |
| Method | OECD 201 | | |

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

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

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2-Propenoic acid, reaction products with pentaerythritol

| | | |
|----------------------|---------------------------------|------|
| Species | Pseudokirchneriella subcapitata | |
| EL50 | 33 | mg/l |
| Duration of exposure | 96 | h |
| Method | OECD 201 | |

2-hydroxy-2-methylpropiophenone

| | | |
|----------------------|-------------------------|------|
| Species | Scenedesmus subspicatus | |
| ErC50 | 1,95 | mg/l |
| Duration of exposure | 72 | h |
| Method | OECD 201 | |

2-hydroxy-2-methylpropiophenone

| | | |
|----------------------|-------------------------|------|
| Species | Scenedesmus subspicatus | |
| NOEC | 0,194 | mg/l |
| Duration of exposure | 72 | h |
| Method | OECD 201 | |

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

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

2-Propenoic acid, reaction products with pentaerythritol

| | | |
|----------------------|------------------|------|
| Species | activated sludge | |
| EC50 | > 100 | mg/l |
| Duration of exposure | 3 | h |
| Method | OECD 209 | |

2-hydroxy-2-methylpropiophenone

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

Acrylic acid

| | | |
|----------------------|------------------|------|
| Species | activated sludge | |
| NOEC | 100 | mg/l |
| Duration of exposure | 30 | min |

12.2. Persistence and degradability**General information**

not determined

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

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

2-Propenoic acid, reaction products with pentaerythritol

| | | | |
|------------------|------------------------|-------|---|
| Value | 6 | to 14 | % |
| Duration of test | 28 | d | |
| evaluation | not readily degradable | | |

Methyl methacrylate monomer, stabilized

| | | |
|------------------|--|---|
| Value | 94 | % |
| Duration of test | 14 | d |
| evaluation | Readily biodegradable (according to OECD criteria) | |
| Method | OECD 301 C | |

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Ready degradability (Components)

2-hydroxy-2-methylpropiophenone

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)**Methyl methacrylate monomer, stabilized**

| | | |
|-------------|----------|----|
| log Pow | 1,38 | |
| Temperature | 20 | °C |
| Method | OECD 107 | |

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

| | | |
|-------------|-----|----|
| log Pow | 3,1 | |
| Temperature | 23 | °C |

2-Propenoic acid, reaction products with pentaerythritol

| | |
|---------|------|
| log Pow | 3,11 |
|---------|------|

Acrylic acid

| | | |
|-------------|----------|----|
| log Pow | 0,46 | |
| Temperature | 25 | °C |
| Method | OECD 107 | |

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.

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 or ID number | 1247 | 1247 | 1247 |
| 14.2. UN proper shipping name | METHYL METHACRYLATE MONOMER, STABILIZED, Solution | METHYL METHACRYLATE MONOMER, STABILIZED, Solution | METHYL METHACRYLATE MONOMER, STABILIZED, Solution |
| 14.3. Transport hazard class(es) | 3 | 3 | 3 |
| Label |  |  |  |
| 14.4. Packing group | II | II | II |
| Limited Quantity | 1 I | 1 I | |
| Transport category | 2 | | |
| 14.5. Environmental hazards | - | | |
| Tunnel restriction code | D/E | | |

SECTION 15: Regulatory information

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

Restriction according to annex XVII to regulation (EU) No 1907/2006

The product is subject to restrictions according to Annex XVII Regulation (EU) No. 1907/2006: Entry No. 3

Other information

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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)

| | | |
|-------------------|---------|-----------------------|
| Flam. Liq. 2 | H225 | On basis of test data |
| Skin Irrit. 2 | H315 | Calculation method |
| Eye Dam. 1 | H318 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| Repr. 1B | H360Fd. | Calculation method |
| STOT SE 3 | H335 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

Hazard statements listed in Chapter 2/3

| | |
|---------|---|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H360Fd. | May damage fertility. Suspected of damaging the unborn child. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

CLP categories listed in Chapter 2/3

| | |
|-------------------|--|
| Acute Tox. 4 | Acute toxicity, Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic, Category 3 |
| Eye Dam. 1 | Serious eye damage, Category 1 |
| Flam. Liq. 2 | Flammable liquid, Category 2 |
| Flam. Liq. 3 | Flammable liquid, Category 3 |
| Repr. 1B | Reproductive toxicity, Category 1B |
| Skin Corr. 1A | Skin corrosion, Category 1A |
| Skin Irrit. 2 | Skin irritation, Category 2 |
| Skin Sens. 1 | Skin sensitization, Category 1 |
| Skin Sens. 1B | Skin sensitization, Category 1B |
| 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.