

SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

MEGAPLAST MM A

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

1.1. Product identifier

Product name : MEGAPLAST MM A
Registration number REACH : Not applicable (mixture)
Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Resin

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Novatio*
Industrielaan 5B
B-2250 Olen
☎ +32 14 25 76 40
☎ +32 14 22 02 66
info@novatio.be
*NOVATIO is a registered trademark of Novatech International N.V.

Manufacturer of the product

Novatech International N.V.
Industrielaan 5B
B-2250 Olen
☎ +32 14 85 97 37
☎ +32 14 85 97 38
info@novatech.be

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

| Class | Category | Hazard statements |
|-----------------|------------|--|
| Flam. Liq. | category 2 | H225: Highly flammable liquid and vapour. |
| Skin Sens. | category 1 | H317: May cause an allergic skin reaction. |
| Eye Dam. | category 1 | H318: Causes serious eye damage. |
| Skin Irrit. | category 2 | H315: Causes skin irritation. |
| STOT SE | category 3 | H335: May cause respiratory irritation. |
| Aquatic Chronic | category 3 | H412: Harmful to aquatic life with long lasting effects. |

2.2. Label elements



Contains: methyl methacrylate; maleic acid; methacrylic acid; colophony; tosyl chloride; propylidynetrimethanol, ethoxylated, esters with acrylic acid; bis[2-(acryloyloxy)ethyl] hydrogen phosphate; 2-(phosphonooxy)ethyl acrylate.

Signal word

Danger

H-statements

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

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P-statements

| | |
|--------------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P280 | Wear protective gloves, protective clothing and eye protection/face protection. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |

2.3. Other hazards

Gas/vapour spreads at floor level: ignition hazard
Caution! Substance is absorbed through the skin

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name REACH Registration No | CAS No EC No | Conc. (C) | Classification according to CLP | Note | Remark | M-factors and ATE |
|--|------------------------|---------------|--|------------|-------------|--|
| methyl methacrylate 01-2119452498-28 | 80-62-6 201-297-1 | 50% <C<75% | Flam. Liq. 2; H225 Skin Sens. 1; H317 Skin Irrit. 2; H315 STOT SE 3; H335 | (1)(2)(10) | Constituent | |
| maleic acid 01-2119488705-25 | 110-16-7 203-742-5 | C<5% | Skin Sens. 1; H317 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Sens. 1; H317: C≥0.1%, (CLP Annex VI (ATP 1)) | (1)(10) | Constituent | |
| methacrylic acid 01-2119463884-26 | 79-41-4 201-204-4 | C<5% | Acute Tox. 3; H311 Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 Eye Dam. 1; H318: 3%≤C<10%, (ECHA) Eye Irrit. 2; H319: 1%≤C<3%, (ECHA) Skin Corr. 1A; H314: C≥10%, (ECHA) Skin Irrit. 2; H315: 1%≤C<10%, (ECHA) Acute Tox. 3; H311: C≥25%, (ECHA) Acute Tox. 4; H312: 10% ≤C<25%, (ECHA) STOT SE 3; H335: C≥1%, (ECHA) | (1)(2)(10) | Constituent | |
| colophony 01-2119480418-32 | 8050-09-7 232-475-7 | C<3% | Skin Sens. 1; H317 | (1)(2)(10) | Constituent | |
| 2,6-di-tert-butyl-p-cresol 01-2119555270-46 | 128-37-0 204-881-4 | C<2.5% | Aquatic Chronic 1; H410 | (1)(2) | Constituent | M: 1 (Chronic, ECHA (registration dossier)) |

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| | | | | | | |
|---|-------------------------|------|---|---------|-------------|--|
| α,α -dimethylbenzyl hydroperoxide 01-2119475796-19 | 80-15-9 201-254-7 | C<1% | Org. Perox. E; H242 Acute Tox. 3; H331 Acute Tox. 4; H312 Acute Tox. 4; H302 STOT RE 2; H373 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 2; H411 Skin Corr. 1B; H314: C \geq 10%, (CLP Annex VI (ATP 0)) Eye Dam. 1; H318: 3% \leq C<10%, (CLP Annex VI (ATP 0)) Skin Irrit. 2; H315: 3% \leq C<10%, (CLP Annex VI (ATP 0)) Eye Irrit. 2; H319: 1% \leq C<3%, (CLP Annex VI (ATP 0)) STOT SE 3; H335: C<10%, (CLP Annex VI (ATP 0)) | (1)(10) | Constituent | |
| tosyl chloride | 98-59-9 202-684-8 | C<1% | Met. Corr. 1; H290 Skin Sens. 1A; H317 Eye Dam. 1; H318 Skin Irrit. 2; H315 | (1)(2) | Constituent | |
| propylidynetrimethanol, ethoxylated, esters with acrylic acid | 28961-43-5 500-066-5 | C<1% | Skin Sens. 1; H317 Eye Irrit. 2; H319 | (1)(10) | Constituent | |
| bis[2-(acryloyloxy)ethyl] hydrogen phosphate | 40074-34-8 254-783-0 | C<1% | Skin Sens. 1B; H317 Eye Dam. 1; H318 Skin Irrit. 2; H315 | (1) | Constituent | |
| 2-(phosphonooxy)ethyl acrylate | 32120-16-4 250-927-1 | C<1% | Skin Sens. 1B; H317 Eye Dam. 1; H318 Skin Irrit. 2; H315 | (1) | Constituent | |

(1) For H- and EUH-statements in full: see section 16
(2) Substance with a Community workplace exposure limit
(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1. Description of first aid measures

General:
Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

After inhalation:
Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

After skin contact:
If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

After eye contact:
Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor/medical service.

After ingestion:
Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

4.2.1 Acute symptoms
After inhalation:
Irritation of the respiratory tract. Irritation of the nasal mucous membranes.
After skin contact:
Tingling/irritation of the skin.
After eye contact:
Corrosion of the eye tissue.
After ingestion:
AFTER INGESTION OF HIGH QUANTITIES: Burns to the gastric/intestinal mucosa. Possible esophageal perforation.

4.2.2 Delayed symptoms
No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (not alcohol-resistant).

5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Do not move the load if exposed to heat. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective goggles (EN 166). Head/neck protection. Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

6.1.1 Protective equipment for non-emergency personnel

See section 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective goggles (EN 166). Head/neck protection. Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 8.2

6.2. Environmental precautions

Contain released product. Dam up the liquid spill. Try to reduce evaporation. Take account of toxic/corrosive precipitation water. Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

Take up liquid spill into inert absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers.

Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See section 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Keep away from naked flames/heat. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges. Insufficient ventilation: keep naked flames/sparks away. Gas/vapour heavier than air at 20°C. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately. Keep container tightly closed. Do not discharge the waste into the drain.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Meet the legal requirements. Store in a dry area. Keep container in a well-ventilated place. Fireproof storeroom. Keep out of direct sunlight. Keep only in the original container.

7.2.2 Keep away from:

Heat sources, ignition sources, oxidizing agents.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

EU

| | | |
|---------------------|---|---------|
| Methyl methacrylate | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 50 ppm |
| | Short time value (Indicative occupational exposure limit value) | 100 ppm |

Belgium

| | | |
|----------------------------|--|-------------------------|
| 2,6-Di-tert-butyl-p-crésol | Time-weighted average exposure limit 8 h | 2 mg/m ³ (1) |
| Acide méthacrylique | Time-weighted average exposure limit 8 h | 20 ppm |
| | Time-weighted average exposure limit 8 h | 71 mg/m ³ |
| Méthacrylate de méthyle | Time-weighted average exposure limit 8 h | 50 ppm |
| | Time-weighted average exposure limit 8 h | 208 mg/m ³ |
| | Short time value | 100 ppm |
| | Short time value | 416 mg/m ³ |

(1) vapeur et aérosol

The Netherlands

| | | |
|--------------------|---|-----------------------|
| Methylmethacrylaat | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 50 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 205 mg/m ³ |
| | Short time value (Public occupational exposure limit value) | 100 ppm |
| | Short time value (Public occupational exposure limit value) | 410 mg/m ³ |

France

| | | |
|---|--|-----------------------|
| 2,6-Di-tert-butyl-p-crésol | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 10 mg/m ³ |
| Acide méthacrylique | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 20 ppm |
| | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 70 mg/m ³ |
| Colophane (produits de décomposition des baguettes de soudure, exprimés en aldéhyde formique) | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 0.1 mg/m ³ |
| Méthacrylate de méthyle | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 50 ppm |
| | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 205 mg/m ³ |
| | Short time value (VRC: Valeur réglementaire contraignante) | 100 ppm |
| | Short time value (VRC: Valeur réglementaire contraignante) | 410 mg/m ³ |

Germany

| | | |
|--------------------------------|--|---------------------------|
| 2,6-Di-tert-butyl-p-kresol | Time-weighted average exposure limit 8 h (TRGS 900) | 10 mg/m ³ (1) |
| | Summe aus Dampf und Aerosolen. | |
| Methacrylsäure | Time-weighted average exposure limit 8 h (TRGS 900) | 180 mg/m ³ (2) |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 50 ppm (2) |
| Methyl-methacrylat | Time-weighted average exposure limit 8 h (TRGS 900) | 210 mg/m ³ (3) |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 50 ppm (3) |
| α,α-Dimethylbenzylhydroperoxid | Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen. | |

(1) Einatembare Fraktion; UF: 4 (II)

(2) UF: 2 (I)

(3) UF: 2 (I)

Austria

| | | |
|----------------------------|------------------------------|-----------------------|
| 2,6-Di-tert-butyl-p-kresol | Tagesmittelwert (MAK) | 10 mg/m ³ |
| Methacrylsäure | Tagesmittelwert (MAK) | 20 ppm |
| | Tagesmittelwert (MAK) | 70 mg/m ³ |
| Methylmethacrylat | Tagesmittelwert (MAK) | 50 ppm |
| | Tagesmittelwert (MAK) | 210 mg/m ³ |
| | Kurzzeitwert 5(Mow) 8x (MAK) | 100 ppm |
| | Kurzzeitwert 5(Mow) 8x (MAK) | 420 mg/m ³ |

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UK

| | | |
|------------------------------|---|------------------------|
| 2,6-Di-tert-butyl-p-cresol | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 10 mg/m ³ |
| Methacrylic acid | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 20 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 72 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 40 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 143 mg/m ³ |
| Methyl methacrylate | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 50 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 208 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 100 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 416 mg/m ³ |
| p-Toluenesulphonyl chloride | Short time value (Workplace exposure limit (EH40/2005)) | 5 mg/m ³ |
| Rosin-based solder flux fume | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 0.05 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 0.15 mg/m ³ |

USA (TLV-ACGIH)

| | | |
|-----------------------------------|--|-----------------------------|
| Butylated hydroxytoluene | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 2 mg/m ³ (1) |
| Methacrylic acid | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 20 ppm |
| Methyl methacrylate | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 50 ppm |
| | Short time value (TLV - Adopted Value) | 100 ppm |
| Resin acids, as total Resin acids | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 0.001 mg/m ³ (2) |

(1) (IFV): Inhalable fraction and vapor

(2) (I): Inhalable fraction

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

| Product name | Test | Number |
|----------------------------------|-------|--------|
| Di-tert-butyl-p-cresol | OSHA | 2108 |
| Methacrylic Acid | OSHA | 2005 |
| Methyl ester of methacrylic acid | NIOSH | 2537 |
| Methyl Methacrylate | NIOSH | 2537 |
| Methyl Methacrylate | NIOSH | 3900 |
| Methyl Methacrylate | NON | 36 |
| Methyl Methacrylate | OSHA | 94 |

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 Threshold values

DNEL/DMEL - Workers

methyll methacrylate

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 348.4 mg/m ³ | |
| | Long-term local effects inhalation | 208 mg/m ³ | |
| | Acute local effects inhalation | 416 mg/m ³ | |
| | Long-term systemic effects dermal | 13.67 mg/kg bw/day | |
| | Long-term local effects dermal | 1.5 mg/cm ² | |
| | Acute local effects dermal | 1.5 mg/cm ² | |

maleic acid

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|---------------------|--------|
| DNEL | Long-term systemic effects inhalation | 3 mg/m ³ | |
| | Acute systemic effects inhalation | 3 mg/m ³ | |
| | Long-term local effects inhalation | 3 mg/m ³ | |
| | Acute local effects inhalation | 3 mg/m ³ | |

methacrylic acid

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 39.3 mg/m ³ | |
| | Long-term local effects inhalation | 44 mg/m ³ | |
| | Long-term systemic effects dermal | 4.25 mg/kg bw/day | |
| | Long-term local effects dermal | 0.38 mg/cm ² | |

2,6-di-tert-butyl-p-cresol

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 1.76 mg/m ³ | |
| | Long-term systemic effects dermal | 0.5 mg/kg bw/day | |

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α,α-dimethylbenzyl hydroperoxide

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|---------------------|--------|
| DNEL | Long-term systemic effects inhalation | 6 mg/m ³ | |

tosyl chloride

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 3.5 mg/m ³ | |
| | Long-term systemic effects dermal | 0.5 mg/kg bw/day | |

propylidynetrimethanol, ethoxylated, esters with acrylic acid

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 16.2 mg/m ³ | |
| | Long-term systemic effects dermal | 0.8 mg/kg bw/day | |

DNEL/DMEL - General population

methyl methacrylate

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 74.3 mg/m ³ | |
| | Long-term local effects inhalation | 104 mg/m ³ | |
| | Acute local effects inhalation | 208 mg/m ³ | |
| | Long-term systemic effects dermal | 8.2 mg/kg bw/day | |
| | Long-term local effects dermal | 1.5 mg/cm ² | |
| | Acute local effects dermal | 1.5 mg/cm ² | |
| | Long-term systemic effects oral | 8.2 mg/kg bw/day | |

methacrylic acid

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 11.7 mg/m ³ | |
| | Long-term local effects inhalation | 8.8 mg/m ³ | |
| | Long-term systemic effects dermal | 5.35 mg/kg bw/day | |
| | Long-term local effects dermal | 0.23 mg/m ³ | |
| | Long-term systemic effects oral | 5.35 mg/kg bw/day | |

2,6-di-tert-butyl-p-cresol

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 0.435 mg/m ³ | |
| | Long-term systemic effects dermal | 0.25 mg/kg bw/day | |
| | Long-term systemic effects oral | 0.25 mg/kg bw/day | |

propylidynetrimethanol, ethoxylated, esters with acrylic acid

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 4.9 mg/m ³ | |
| | Long-term systemic effects dermal | 0.5 mg/kg bw/day | |
| | Long-term systemic effects oral | 1.4 mg/kg bw/day | |

PNEC

methyl methacrylate

| Compartments | Value | Remark |
|-------------------------------------|------------------------|--------|
| Fresh water | 0.94 mg/l | |
| Marine water | 0.094 mg/l | |
| Fresh water (intermittent releases) | 0.69 mg/l | |
| STP | 10 mg/l | |
| Fresh water sediment | 10.2 mg/kg sediment dw | |
| Marine water sediment | 1.02 mg/kg sediment dw | |
| Soil | 1.48 mg/kg soil dw | |

maleic acid

| Compartments | Value | Remark |
|-------------------------------------|-------------------------|--------|
| Fresh water | 0.1 mg/l | |
| Marine water | 0.01 mg/l | |
| Fresh water (intermittent releases) | 0.428 mg/l | |
| STP | 44.6 mg/l | |
| Fresh water sediment | 0.334 mg/kg sediment dw | |
| Marine water sediment | 0.033 mg/kg sediment dw | |
| Soil | 0.042 mg/kg soil dw | |

methacrylic acid

| Compartments | Value | Remark |
|-------------------------------------|-------------------------|--------|
| Fresh water | 0.82 mg/l | |
| Marine water | 0.082 mg/l | |
| Fresh water (intermittent releases) | 0.45 mg/l | |
| STP | 100 mg/l | |
| Fresh water sediment | 3.09 mg/kg sediment dw | |
| Marine water sediment | 0.309 mg/kg sediment dw | |
| Soil | 0.137 mg/kg soil dw | |

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2,6-di-tert-butyl-p-cresol

| Compartment | Value | Remark |
|-------------------------------------|-------------------------|--------|
| Fresh water | 0.199 µg/l | |
| Fresh water (intermittent releases) | 1.99 µg/l | |
| Marine water | 0.02 µg/l | |
| STP | 0.017 mg/l | |
| Fresh water sediment | 0.458 mg/kg sediment dw | |
| Marine water sediment | 0.046 mg/kg sediment dw | |
| Soil | 0.054 mg/kg soil dw | |
| Oral | 16.67 mg/kg food | |

α,α-dimethylbenzyl hydroperoxide

| Compartment | Value | Remark |
|-------------------------------------|-------------------------|--------|
| Fresh water | 0.003 mg/l | |
| Marine water | < 0.001 mg/l | |
| Fresh water (intermittent releases) | 0.031 mg/l | |
| STP | 0.35 mg/l | |
| Fresh water sediment | 0.023 mg/kg sediment dw | |
| Marine water sediment | 0.002 mg/kg sediment dw | |
| Soil | 0.003 mg/kg soil dw | |

tosyl chloride

| Compartment | Value | Remark |
|-------------------------------------|-----------|--------|
| Fresh water | 0.1 mg/l | |
| Marine water | 0.01 mg/l | |
| Fresh water (intermittent releases) | 1 mg/l | |
| STP | 17.3 mg/l | |

propylidynetrimethanol, ethoxylated, esters with acrylic acid

| Compartment | Value | Remark |
|-------------------------------------|-------------------------|--------|
| Fresh water | 0.002 mg/l | |
| Marine water | < 0.001 mg/l | |
| Fresh water (intermittent releases) | 0.019 mg/l | |
| STP | 10 mg/l | |
| Fresh water sediment | 0.008 mg/kg sediment dw | |
| Marine water sediment | 0.001 mg/kg sediment dw | |
| Soil | 0.006 mg/kg soil dw | |
| Oral | 5.6 mg/kg food | |

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges. Insufficient ventilation: keep naked flames/sparks away. Measure the concentration in the air regularly. Work under local exhaust/ventilation.

8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Do not eat, drink or smoke during work.

a) Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

b) Hand protection:

Protective gloves against chemicals (EN 374).

| Materials | Measured breakthrough time | Thickness | Protection index | Remark |
|--------------|----------------------------|-----------|------------------|--------|
| butyl rubber | > 60 minutes | 0.7 mm | Class 3 | |

c) Eye protection:

Protective goggles (EN 166).

d) Skin protection:

Protective clothing (EN 14605 or EN 13034). Head/neck protection.

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|-------------------------------------|
| Physical form | Liquid |
| Colour | Black |
| Odour | Characteristic odour |
| Odour threshold | No data available in the literature |
| Melting point | No data available in the literature |
| Boiling point | No data available in the literature |

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| | |
|---------------------------|---|
| Flammability | Highly flammable liquid and vapour. |
| Explosion limits | No data available in the literature |
| Flash point | 11 °C ; Closed cup |
| Auto-ignition temperature | No data available in the literature |
| Decomposition temperature | No data available in the literature |
| pH | No data available in the literature |
| Kinematic viscosity | ≥ 40 mm ² /s ; 40 °C |
| Dynamic viscosity | No data available in the literature |
| Solubility | Water ; insoluble |
| Log Kow | Not applicable (mixture) |
| Vapour pressure | No data available in the literature |
| Absolute density | 1000 kg/m ³ - 1030 kg/m ³ |
| Relative density | 1.00 - 1.03 |
| Relative vapour density | No data available in the literature |
| Particle size | Not applicable (liquid) |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

May polymerize: release of heat.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges. Insufficient ventilation: keep naked flames/sparks away.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Upon combustion: CO and CO₂ are formed.

SECTION 11: Toxicological information

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

11.1.1 Test results

Acute toxicity

MEGAPLAST MM A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

methyl methacrylate

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------------|-----------------|---------------|---------------------|---------------------|--------|
| Oral | LD50 | | 9400 mg/kg bw | | Rat (male / female) | Experimental value | |
| Dermal | LD50 | Equivalent to OECD 402 | > 5000 mg/kg bw | 24 h | Rabbit (male) | Experimental value | |
| Inhalation (vapours) | LC50 | Equivalent to OECD 403 | 29.8 mg/l air | 4 h | Rat (male / female) | Experimental value | |

maleic acid

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|--------|---------------|---------------|---------|---------------------|----------------|
| Oral | LD50 | | 708 mg/kg bw | | Rat | Experimental value | |
| Skin | LD50 | | 1560 mg/kg bw | | Rabbit | Experimental value | |
| | | | | | | Annex VI | Not classified |

Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test

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methacrylic acid

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|--|-----------|------------------------|------------------------------|---------------|---------------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 401 | 1320 mg/kg bw | | Rat (male) | Experimental value | |
| Dermal | LD50 | | 500 mg/kg bw - 1000 mg/kg bw | | Rabbit | Experimental value | |
| Inhalation (mixture of vapour and aerosol) | LC50 | Equivalent to OECD 403 | 7.1 mg/l air | 4 h | Rat (male / female) | Experimental value | |
| Inhalation (dust) | LC50 | Equivalent to OECD 403 | 3.19 mg/l - 6.5 mg/l | 4 h | Rat (male / female) | Experimental value | |

Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test

colophony

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|----------|-----------------|---------------|---------------------|---------------------|--------|
| Oral | LD50 | OECD 423 | > 2000 mg/kg | | Rat (female) | Experimental value | |
| Dermal | LD50 | OECD 402 | > 2000 mg/kg bw | 24 h | Rat (male / female) | Experimental value | |
| Inhalation | | | | | | Data waiving | |

2,6-di-tert-butyl-p-cresol

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|----------|-----------------|---------------|---------------------|---------------------|--------|
| Oral | LD50 | OECD 401 | > 6000 mg/kg bw | | Rat (male / female) | Experimental value | |
| Dermal | LD50 | OECD 402 | > 2000 mg/kg bw | 24 h | Rat (male / female) | Experimental value | |
| Inhalation (vapours) | RD50 | | 59.7 ppm | 30 minutes | Mouse (male) | Experimental value | |

α,α -dimethylbenzyl hydroperoxide

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|--------|--------------|---------------|---------------|---------------------|-----------------|
| Oral | LD50 | | 382 mg/kg | | Rat (male) | Experimental value | |
| Dermal | LD50 | | 134 mg/kg bw | 24 h | Rabbit (male) | Weight of evidence | |
| Dermal | | | category 4 | | | Annex VI | |
| Inhalation (vapours) | LC50 | | 1.37 mg/l | 4 h | Rat (male) | Experimental value | Converted value |
| Inhalation | | | category 3 | | | Annex VI | |

Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test

tosyl chloride

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|------------------------|-----------------|---------------|------------------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 401 | 4680 mg/kg bw | | Rat (male / female) | Experimental value | |
| Dermal | LD50 | | > 5010 mg/kg bw | 24 h | Rabbit (male / female) | Experimental value | |
| Inhalation | | | | | | Data waiving | |

propylidynetrimethanol, ethoxylated, esters with acrylic acid

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|----------|------------------|---------------|---------------------|---------------------|--------|
| Oral | LD50 | OECD 401 | > 2000 mg/kg bw | | Rat (male / female) | Experimental value | |
| Dermal | LD50 | | > 13200 mg/kg bw | | Rabbit | Experimental value | |
| Inhalation | | | | | | Data waiving | |

Conclusion

Not classified for acute toxicity

Corrosion/irritation

MEGAPLAST MM A

No (test)data on the mixture available

Classification is based on the relevant ingredients

MEGAPLAST MM A

methyl methacrylate

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|----------------------|---------------------------|--------|---------------|------------------|---------|---------------------|----------------------------------|
| Eye | Not irritating | | | 24; 48; 72 hours | Rabbit | Experimental value | Single treatment without rinsing |
| Skin | Irritating | | 4 h | 24; 72 hours | Rabbit | Experimental value | |
| Inhalation (vapours) | Irritating; STOT SE cat.3 | | | | | Annex VI | |

maleic acid

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|--------------------------------|---------------------------|------------------------|---------------|--------------|-------------------------------|---------------------|------------------|
| Eye | Serious eye damage | Equivalent to OECD 405 | | 24; 48 hours | Rabbit | Experimental value | Single treatment |
| Eye | Highly irritating | | 2 minutes | | Rabbit | Experimental value | |
| Eye | Irritating; category 2 | | | | | Annex VI | |
| Not applicable (in vitro test) | Corrosive | OECD 435 | | | Reconstructed human epidermis | Experimental value | |
| | Slightly irritating | OECD 404 | 24 h | | Rabbit | Read-across | |
| Skin | Irritating; category 2 | | | | | Annex VI | |
| Inhalation (dust) | Irritating; STOT SE cat.3 | | | | | Annex VI | |

Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test

methacrylic acid

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|--------------------|------------------------|---------------|------------------|---------|---------------------|-------------------------------|
| Eye | Serious eye damage | | 4 seconds | 24; 48; 72 hours | Rabbit | Experimental value | Single treatment with rinsing |
| Skin | Highly corrosive | Equivalent to OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |

colophony

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|----------|---------------|------------------|---------|---------------------|------------------|
| Eye | Not irritating | OECD 405 | | 24; 48; 72 hours | Rabbit | Experimental value | Single treatment |
| Skin | Not irritating | OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |

2,6-di-tert-butyl-p-cresol

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|---------------------|-------------|---------------|------------------|---------|---------------------|--------|
| Eye | Slightly irritating | Draize Test | | 24; 48; 72 hours | Rabbit | Experimental value | |
| Skin | Not irritating | Draize Test | 24 h | 24; 48 hours | Rabbit | Experimental value | |

α,α -dimethylbenzyl hydroperoxide

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|--------------------|--------|---------------|------------|---------|---------------------|------------------|
| Eye | Serious eye damage | | | 24 hours | Rabbit | Experimental value | Single treatment |
| Skin | Corrosive | | 24 h | | Rabbit | Experimental value | |

tosyl chloride

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|--------------------|------------------------|---------------|------------------|---------|---------------------|----------------------------------|
| Eye | Serious eye damage | Equivalent to OECD 405 | | 24; 48; 72 hours | Rabbit | Experimental value | Single treatment without rinsing |
| Skin | Irritating | Equivalent to OECD 404 | 24 h | 24; 48; 72 hours | Rabbit | Experimental value | |

propylidynetrimethanol, ethoxylated, esters with acrylic acid

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|------------|----------|---------------|------------------|---------|---------------------|-------------------------------|
| Eye | Irritating | OECD 405 | | 24; 48; 72 hours | Rabbit | Experimental value | Single treatment with rinsing |

MEGAPLAST MM A

bis[2-(acryloyloxy)ethyl] hydrogen phosphate

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|--------------------------------|--------|---------------|------------|---------|---------------------|--------|
| Eye | Serious eye damage; category 1 | | | | | Literature study | |
| Skin | Irritating; category 2 | | | | | Literature study | |

2-(phosphonoxy)ethyl acrylate

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|--------------------------------|--------|---------------|------------|---------|---------------------|--------|
| Eye | Serious eye damage; category 1 | | | | | Literature study | |
| Skin | Irritating; category 2 | | | | | Literature study | |

Conclusion

Causes skin irritation.
Causes serious eye damage.
May cause respiratory irritation.

Respiratory or skin sensitisation

MEGAPLAST MM A

No (test)data on the mixture available
Classification is based on the relevant ingredients
methly methacrylate

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|----------------------|-------------|------------------------|---------------|------------------------|---------|---------------------|--------|
| Dermal (on the ears) | Sensitizing | Equivalent to OECD 429 | | | Mouse | Experimental value | |

maleic acid

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-------------|---------------|---------------|------------------------|---------------------|---------------------|--------|
| Dermal | Sensitizing | OECD 406 | | | Guinea pig (female) | Experimental value | |
| Dermal | Sensitizing | EU Method B.6 | | 24; 48 hours | Guinea pig (female) | Experimental value | |
| Subcutaneous | Sensitizing | OECD 429 | 3 day(s) | | Mouse (female) | Experimental value | |

methacrylic acid

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------|---------------|------------------------|-------------------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to OECD 406 | | | Guinea pig (male) | Experimental value | |

colophony

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|----------------------|-------------|----------|---------------|------------------------|----------------|---------------------|--------|
| Dermal (on the ears) | Sensitizing | OECD 429 | | | Mouse (female) | Experimental value | |

2,6-di-tert-butyl-p-cresol

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------------|---------------|------------------------|----------------------------|---------------------|--------|
| Skin | Not sensitizing | Guinea pig maximisation test | | | Guinea pig (male / female) | Experimental value | |
| Skin | Not sensitizing | | | | Human (male / female) | Experimental value | |

α,α-dimethylbenzyl hydroperoxide

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|--------|--------|---------------|------------------------|---------|---------------------|--------|
| Skin | | | | | | Data waiving | |

tosyl chloride

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|----------------------|-------------|----------|---------------|------------------------|----------------|---------------------|--------|
| Dermal (on the ears) | Sensitizing | OECD 429 | | | Mouse (female) | Experimental value | |

propylidynetrimethanol, ethoxylated, esters with acrylic acid

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-------------|----------|---------------|------------------------|---------------------|---------------------|--------|
| Skin | Sensitizing | OECD 406 | 6 h | 24; 48 hours | Guinea pig (female) | Experimental value | |

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MEGAPLAST MM A

bis[2-(acryloyloxy)ethyl] hydrogen phosphate

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|--------------------------|--------|---------------|------------------------|---------|---------------------|--------|
| Skin | Sensitizing; category 1B | | | | | Literature study | |

2-(phosphonooxy)ethyl acrylate

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|--------------------------|--------|---------------|------------------------|---------|---------------------|--------|
| Skin | Sensitizing; category 1B | | | | | Literature study | |

Conclusion

May cause an allergic skin reaction.

Not classified as sensitizing for inhalation

Specific target organ toxicity

MEGAPLAST MM A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

methyl methacrylate

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|-----------------------|------------------------|------------------------|----------------------------|--------------------------------------|-------------------------------------|---------------------|---------------------|--------|
| Oral (drinking water) | NOAEL | | ≥ 124.1 mg/kg bw/day | No effect | 104 week(s) | Rat (male) | Experimental value | |
| Oral (drinking water) | NOAEL | | ≥ 164 mg/kg bw/day | No effect | 104 week(s) | Rat (female) | Experimental value | |
| Inhalation (vapours) | NOAEC systemic effects | Equivalent to OECD 453 | 1640 mg/m ³ air | No adverse systemic effects | 104 weeks (6h / day, 5 days / week) | Rat (male / female) | Experimental value | |
| Inhalation (vapours) | NOAEC local effects | Equivalent to OECD 453 | 104 mg/m ³ air | Nose (no effect) | 104 weeks (6h / day, 5 days / week) | Rat (male / female) | Experimental value | |
| Inhalation (vapours) | LOAEC local effects | Equivalent to OECD 453 | 416 mg/m ³ air | Nose (affection of the nasal septum) | 104 weeks (6h / day, 5 days / week) | Rat (male / female) | Experimental value | |

maleic acid

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|------------------------|------------------|--------------------------------|---------------|---------------------|---------------------|--------|
| Oral | NOEL | Equivalent to OECD 409 | 60 mg/kg bw/day | | 90 day(s) | Dog (male / female) | Experimental value | |
| Oral | LOEL | Equivalent to OECD 452 | 250 mg/kg bw/day | All major organs (weight gain) | 90 day(s) | Rat (male) | Weight of evidence | |

methacrylic acid

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|---------------------|-----------|------------------------|----------------------------|------------------------------------|------------------------------------|---------------------|---------------------|--------|
| Oral (stomach tube) | NOAEL | | 0.05 mg/kg bw/day | No effect | 6 month(s) | Rat | Experimental value | |
| Inhalation | NOAEC | OECD 413 | 352 mg/m ³ | No effect | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | Experimental value | |
| Inhalation | LOAEC | Equivalent to OECD 453 | 1232 mg/m ³ air | Central nervous system (no effect) | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | Experimental value | |

colophony

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|-------------------|------------------------|----------|-------------------------------------|-----------------------------|---------------|---------------------|---------------------|--------|
| Oral (diet) | NOAEL systemic effects | OECD 408 | 335 mg/kg bw/day - 401 mg/kg bw/day | No adverse systemic effects | 90 day(s) | Rat (male / female) | Experimental value | |
| Dermal | | | | | | | Data waiving | |
| Inhalation | | | | | | | Data waiving | |

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MEGAPLAST MM A

2,6-di-tert-butyl-p-cresol

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|-------------------|------------|--------------------------|-------------------|--|--------------------------|---------------------|---------------------|--------|
| Oral (diet) | NOAEL | Subacute toxicity test | ≥ 61 mg/kg bw/day | No effect | | Pig (male / female) | Experimental value | |
| Oral (diet) | NOAEL | | 25 mg/kg bw/day | No effect | | Rat (male) | Experimental value | |
| Oral (diet) | Dose level | | 100 mg/kg bw/day | Liver (enlargement / affection of the liver) | | Rat (male) | Experimental value | |
| Dermal | Dose level | Subchronic toxicity test | 2000 mg/l | No adverse systemic effects | 4 weeks (3 times / week) | Rat (male / female) | Experimental value | |

α,α-dimethylbenzyl hydroperoxide

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|----------------------|------------|--------------------------|--------------|--------------|------------------------------------|---------------------|---------------------|--------|
| Oral (stomach tube) | Dose level | Subchronic toxicity test | 19 mg/kg | Mortality | 7 weeks (3 times / week) | Rat (male) | Experimental value | |
| Inhalation (aerosol) | NOAEC | Subchronic toxicity test | 31 mg/m³ air | No effect | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | Experimental value | |

tosyl chloride

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|---------------------|-----------|----------|------------------|---|------------------------|---------------------|---------------------|--------|
| Oral (stomach tube) | LOAEL | OECD 422 | 150 mg/kg bw/day | Stomach (irritation of the gastric/intestinal mucosa) | 34 day(s) - 51 day (s) | Rat (male / female) | Experimental value | |
| Dermal | | | | | | | Data waiving | |
| Inhalation | | | | | | | Data waiving | |

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

MEGAPLAST MM A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

methyl methacrylate

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|----------|--|--------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | OECD 471 | Bacteria (S.typhimurium) | | Experimental value | |
| Negative with metabolic activation, negative without metabolic activation | OECD 476 | Chinese hamster lung fibroblasts (V79) | | Experimental value | |

maleic acid

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|-----------|--|--------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | Ames test | Bacteria (S.typhimurium) | | Experimental value | |
| Negative with metabolic activation, negative without metabolic activation | OECD 476 | Chinese hamster lung fibroblasts (V79) | | Experimental value | |

methacrylic acid

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|----------|--|-----------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | OECD 471 | Bacteria (S. typhimurium and E. coli) | No effect | Experimental value | |
| Negative with metabolic activation, negative without metabolic activation | OECD 476 | Chinese hamster lung fibroblasts (V79) | No effect | Experimental value | |

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MEGAPLAST MM A

colophony

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|----------|---------------------------------------|-----------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | OECD 471 | Bacteria (S. typhimurium and E. coli) | No effect | Experimental value | |
| Negative with metabolic activation, negative without metabolic activation | OECD 476 | Mouse (lymphoma L5178Y cells) | No effect | Experimental value | |
| Negative with metabolic activation, negative without metabolic activation | OECD 473 | Human lymphocytes | No effect | Experimental value | |

2,6-di-tert-butyl-p-cresol

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|------------------------|---------------------------------------|-----------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S. typhimurium and E. coli) | No effect | Experimental value | |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 473 | Chinese hamster ovary (CHO) | No effect | Experimental value | |

α,α -dimethylbenzyl hydroperoxide

| Result | Method | Test substrate | Effect | Value determination | Remark |
|----------|------------------------|--------------------------|--------|---------------------|--------|
| Positive | Equivalent to OECD 471 | Bacteria (S.typhimurium) | | Experimental value | |

tosyl chloride

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|------------------------|-------------------------------|--------|---------------------|--------|
| Positive with metabolic activation | OECD 476 | Mouse (lymphoma L5178Y cells) | | Experimental value | |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | | Experimental value | |

Mutagenicity (in vivo)

MEGAPLAST MM A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

methyl methacrylate

| Result | Method | Exposure time | Test substrate | Organ/Effect | Value determination | Remark |
|---------------------------------|------------------------|-------------------|----------------|--------------|---------------------|--------|
| Negative (Inhalation (vapours)) | Equivalent to OECD 478 | 5 days (6h / day) | Mouse (male) | No effect | Experimental value | |

2,6-di-tert-butyl-p-cresol

| Result | Method | Exposure time | Test substrate | Organ/Effect | Value determination | Remark |
|----------------------------|-----------------------------|------------------|-----------------------|--------------|---------------------|----------------------------------|
| Negative (Intraperitoneal) | Micronucleus test | | Mouse (male / female) | No effect | Experimental value | Single intraperitoneal injection |
| Positive (Oral (diet)) | Chromosome aberration assay | 10 weeks (daily) | Rat (male) | | Experimental value | Not relevant |

α,α -dimethylbenzyl hydroperoxide

| Result | Method | Exposure time | Test substrate | Organ/Effect | Value determination | Remark |
|-------------------|-------------------|--------------------------|-----------------------|-------------------|---------------------|--------|
| Negative (Dermal) | Micronucleus test | 13 weeks (5 days / week) | Mouse (male / female) | Blood (no effect) | Experimental value | |

tosyl chloride

| Result | Method | Exposure time | Test substrate | Organ/Effect | Value determination | Remark |
|----------------------------|----------|-------------------|----------------|-------------------------|---------------------|--------|
| Negative (Intraperitoneal) | OECD 474 | 3 days (1x / day) | Mouse (male) | Bone marrow (no effect) | Experimental value | |

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

MEGAPLAST MM A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

MEGAPLAST MM A

methyl methacrylate

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|-----------------------|-----------|-----------------------------|----------------------|------------------------|-------------------------------------|---------------------|---------------------|--------|
| Inhalation (vapours) | NOAEC | Equivalent to OECD 451 | ≥ 2.05 mg/l air | No carcinogenic effect | 102 weeks (6h / day, 5 days / week) | Rat (male / female) | Experimental value | |
| Oral (drinking water) | NOAEL | Carcinogenic toxicity study | ≥ 90.3 mg/kg bw/day | No carcinogenic effect | 104 weeks (daily) | Rat (male) | Experimental value | |
| Oral (drinking water) | NOAEL | Carcinogenic toxicity study | ≥ 193.8 mg/kg bw/day | No carcinogenic effect | 104 weeks (daily) | Rat (female) | Experimental value | |

maleic acid

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|------------------------|--------------------|------------------------|---------------------------|---------------------|---------------------|--------|
| Oral (diet) | NOAEL | Equivalent to OECD 451 | ≥ 100 mg/kg bw/day | No carcinogenic effect | 104 weeks (7 days / week) | Rat (male / female) | Experimental value | |

methacrylic acid

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|-----------------------|-----------|-----------------------------|----------------------|------------------------|-------------------------------------|--------------|---------------------|--------|
| Inhalation | NOAEC | Equivalent to OECD 451 | ≥ 2.05 mg/l air | No carcinogenic effect | 102 weeks (6h / day, 5 days / week) | Rat (female) | Experimental value | |
| Inhalation | NOAEC | Equivalent to OECD 451 | ≥ 4.1 mg/l air | No carcinogenic effect | 102 weeks (6h / day, 5 days / week) | Rat (male) | Experimental value | |
| Oral (drinking water) | NOAEL | Carcinogenic toxicity study | ≥ 90.3 mg/kg bw/day | No carcinogenic effect | 104 weeks (daily) | Rat (male) | Experimental value | |
| Oral (drinking water) | NOAEL | Carcinogenic toxicity study | ≥ 193.8 mg/kg bw/day | No carcinogenic effect | 104 weeks (daily) | Rat (female) | Experimental value | |

colophony

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|--------|-------|--------------|---------------|---------|---------------------|--------|
| Unknown | | | | | | | Data waiving | |

2,6-di-tert-butyl-p-cresol

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|-----------------------------|-----------------|------------------------|---------------|---------------------|---------------------|--------|
| Oral (diet) | NOAEL | Carcinogenic toxicity study | 25 mg/kg bw/day | No carcinogenic effect | | Rat (male / female) | Experimental value | |

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

MEGAPLAST MM A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

methyl methacrylate

| Category | Parameter | Method | Value | Exposure time | Species | Effect | Value determination | Remark |
|---|-----------|----------|------------------|--------------------|---------------------|--------------------|---------------------|--------|
| Developmental toxicity (Inhalation (vapours)) | NOAEC | OECD 414 | 8.44 mg/l air | 10 days (6h / day) | Rat | Foetus (no effect) | Experimental value | |
| Maternal toxicity (Inhalation (vapours)) | NOAEC | OECD 414 | 8.44 mg/l air | 10 days (6h / day) | Rat | No effect | Experimental value | |
| Effects on fertility (Oral (stomach tube)) | NOAEL | OECD 416 | 400 mg/kg bw/day | | Rat (male / female) | No effect | Experimental value | |

maleic acid

| Category | Parameter | Method | Value | Exposure time | Species | Effect | Value determination | Remark |
|--|-----------|------------------------|-----------------|---------------|---------------------|-----------|---------------------|--------|
| Effects on fertility (Oral (stomach tube)) | LOEL | Equivalent to OECD 416 | 20 mg/kg bw/day | 80 day(s) | Rat (male / female) | No effect | Read-across | |

methacrylic acid

| Category | Parameter | Method | Value | Exposure time | Species | Effect | Value determination | Remark |
|--|--------------|----------|------------------|---------------|---------------------|--------------------|---------------------|--------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | 400 mg/kg bw/day | | Rat | Foetus (no effect) | Experimental value | |
| Effects on fertility (Oral (stomach tube)) | NOAEL (P/F1) | OECD 416 | 400 mg/kg bw/day | | Rat (male / female) | No effect | Experimental value | |

Reason for revision: 2.3; 3

Publication date: 2019-12-04

Date of revision: 2024-02-26

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colophony

| Category | Parameter | Method | Value | Exposure time | Species | Effect | Value determination | Remark |
|--------------------------------------|-----------|----------|----------|----------------------------|---------------------|-----------|---------------------|--------|
| Developmental toxicity (Oral (diet)) | NOAEL | OECD 414 | 5000 ppm | 17 days (gestation, daily) | Rat | No effect | Experimental value | |
| Maternal toxicity (Oral (diet)) | NOAEL | OECD 414 | 2500 ppm | 17 days (gestation, daily) | Rat | No effect | Experimental value | |
| Effects on fertility (Oral (diet)) | NOAEL (P) | OECD 421 | 3000 ppm | 30 day(s) - 45 day (s) | Rat (male / female) | No effect | Experimental value | |

2,6-di-tert-butyl-p-cresol

| Category | Parameter | Method | Value | Exposure time | Species | Effect | Value determination | Remark |
|--|------------|------------------------------|------------------|---------------------------|---------------------|-------------------|---------------------|--------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | Developmental toxicity study | 800 mg/kg bw/day | 7 days (gestation, daily) | Mouse | No effect | Experimental value | |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | Developmental toxicity study | 240 mg/kg bw/day | 7 days (gestation, daily) | Mouse | No effect | Experimental value | |
| Maternal toxicity (Oral (stomach tube)) | LOAEL | Developmental toxicity study | 800 mg/kg bw/day | | Mouse | Maternal toxicity | Experimental value | |
| Effects on fertility (Oral (diet)) | Dose level | Equivalent to OECD 416 | 250 mg/kg bw/day | | Rat (male / female) | No effect | Experimental value | |

α,α -dimethylbenzyl hydroperoxide

| Category | Parameter | Method | Value | Exposure time | Species | Effect | Value determination | Remark |
|--|------------------------|----------|-------------------------|----------------------------|---------|-----------------------------|---------------------|--------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | ≥ 100 mg/kg bw/day | 14 days (gestation, daily) | Rat | No effect | Experimental value | |
| Maternal toxicity (Oral (stomach tube)) | NOAEL systemic effects | OECD 414 | 100 mg/kg bw/day | 14 days (gestation, daily) | Rat | No adverse systemic effects | Experimental value | |
| Maternal toxicity (Oral (stomach tube)) | NOAEL local effects | OECD 414 | 15 mg/kg bw/day | 14 days (gestation, daily) | Rat | No effect | Experimental value | |
| Effects on fertility | | | | | | | Data waiving | |

tosyl chloride

| Category | Parameter | Method | Value | Exposure time | Species | Effect | Value determination | Remark |
|--|-----------|------------------------------|-----------------------|------------------------|---------------------|-----------|---------------------|--------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | Developmental toxicity study | > 3000 mg/kg bw/day | 10 day(s) | Rat | No effect | Experimental value | |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | Developmental toxicity study | > 3000 mg/kg bw/day | 10 day(s) | Rat | No effect | Experimental value | |
| Effects on fertility (Oral (stomach tube)) | NOAEL | OECD 422 | 750 mg/kg bw/day | 34 day(s) - 51 day (s) | Rat (male / female) | No effect | Experimental value | |

Conclusion

Not classified for reprotoxic or developmental toxicity

Aspiration hazard

MEGAPLAST MM A

Judgement is based on the relevant ingredients
Not classified for aspiration toxicity

Toxicity other effects

MEGAPLAST MM A

No (test)data on the mixture available

Chronic effects from short and long-term exposure

MEGAPLAST MM A

Skin rash/inflammation.

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

MEGAPLAST MM A

No (test)data on the mixture available
Classification is based on the relevant ingredients

Reason for revision: 2.3; 3

Publication date: 2019-12-04

Date of revision: 2024-02-26

Revision number: 0200

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methyl methacrylate

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|------------|------------------|------------|-----------|---------------------------------|---------------------|------------------|--------------------------------------|
| Acute toxicity fishes | LC50 | | > 100 mg/l | | Pisces | | | Literature study |
| Acute toxicity crustacea | EC50 | EPA OTS 797.1300 | 69 mg/l | 48 h | Daphnia magna | Flow-through system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | EC50 | OECD 201 | > 110 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| | NOEC | OECD 201 | 110 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| Long-term toxicity aquatic crustacea | NOEC | OECD 211 | 37 mg/l | 21 day(s) | Daphnia magna | Flow-through system | Fresh water | Experimental value; Reproduction |
| Toxicity aquatic micro-organisms | Dose level | OECD 301C | 100 mg/l | 14 day(s) | Activated sludge | Static system | Fresh water | Experimental value |
| | EC50 | | > 178 mg/l | 48 h | Chilomas sp. | | | Literature study |

maleic acid

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|--------------|------------|-----------|---------------------------------|---------------|------------------|---|
| Acute toxicity fishes | LC50 | DIN 38412-15 | 106 mg/l | 48 h | Leuciscus idus | | Fresh water | Weight of evidence |
| Acute toxicity crustacea | EC50 | OECD 202 | 42.81 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Nominal concentration |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | 74.35 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Nominal concentration |
| | EC10 | OECD 201 | 11.8 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| Long-term toxicity aquatic crustacea | NOEC | | 10 mg/l | 21 day(s) | Daphnia magna | | Fresh water | Read-across; Reproduction |
| Toxicity aquatic micro-organisms | EC10 | DIN 38412-8 | 44.6 mg/l | 18 h | Pseudomonas putida | Static system | Fresh water | Experimental value; Growth inhibition |

methacrylic acid

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|------------------|------------|-----------|---------------------------------|---------------------|------------------|----------------------------------|
| Acute toxicity fishes | LC50 | EPA OTS 797.1400 | 85 mg/l | 96 h | Oncorhynchus mykiss | Flow-through system | Fresh water | Experimental value; GLP |
| Acute toxicity crustacea | EC50 | EPA OTS 797.1300 | > 130 mg/l | 48 h | Daphnia magna | Flow-through system | Fresh water | Experimental value; Lethal |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | 45 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; GLP |
| | NOEC | OECD 201 | 8.2 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| Long-term toxicity fish | NOEC | OECD 210 | 10 mg/l | 35 day(s) | Danio rerio | Flow-through system | Fresh water | Experimental value; GLP |
| Long-term toxicity aquatic crustacea | NOEC | OECD 211 | ≥ 53 mg/l | 21 day(s) | Daphnia magna | Flow-through system | Fresh water | Experimental value; Reproduction |
| Toxicity aquatic micro-organisms | EC50 | DIN 38412-8 | 270 mg/l | 17 h | Pseudomonas putida | Static system | Fresh water | Experimental value; Neutralized |

MEGAPLAST MM A

colophony

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|----------|--------------|----------|---------------------------------|---------------|------------------|---|
| Acute toxicity fishes | LC50 | OECD 203 | 1.7 mg/l | 96 h | Pimephales promelas | Static system | Fresh water | Experimental value; Nominal concentration |
| Acute toxicity crustacea | EL50 | OECD 202 | 36 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Similar product |
| Toxicity algae and other aquatic plants | EC50 | OECD 201 | 40 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Nominal concentration |
| | NOEC | OECD 201 | 6.3 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Nominal concentration |
| Toxicity aquatic micro-organisms | EC50 | OECD 209 | > 10000 mg/l | 3 h | Activated sludge | Static system | Fresh water | Experimental value; GLP |

2,6-di-tert-butyl-p-cresol

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|--------------|-------------|-----------|---------------------------------|---------------|------------------|---------------------------------|
| Acute toxicity fishes | LC50 | ECOSAR v1.00 | 0.199 mg/l | 96 h | Pisces | | | QSAR; Lethal |
| Acute toxicity crustacea | EC50 | OECD 202 | 0.48 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; GLP |
| Toxicity algae and other aquatic plants | EC50 | OECD 201 | > 0.24 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| | NOEC | OECD 201 | 0.24 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| Long-term toxicity fish | NOEC | OECD 210 | 0.053 mg/l | 30 day(s) | Oryzias latipes | | | Experimental value; GLP |
| Long-term toxicity aquatic crustacea | NOEC | OECD 211 | 0.069 mg/l | 21 day(s) | Daphnia magna | | Fresh water | Experimental value; GLP |

Classification of this substance is debatable as it does not correspond to the conclusion from the test

α,α -dimethylbenzyl hydroperoxide

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|----------|----------|----------|-------------------------|--------------------|------------------|-------------------------|
| Acute toxicity fishes | LC50 | OECD 203 | 3.9 mg/l | 96 h | Oncorhynchus mykiss | Semi-static system | Fresh water | Experimental value; GLP |
| Acute toxicity crustacea | EC50 | OECD 202 | 19 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; GLP |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | 3.1 mg/l | 72 h | Desmodesmus subspicatus | Static system | Fresh water | Experimental value; GLP |
| | NOEC | OECD 201 | 1 mg/l | 72 h | Desmodesmus subspicatus | Static system | Fresh water | Experimental value; GLP |

tosyl chloride

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|------------------------|------------|----------|---------------------------------|---------------|------------------|---|
| Acute toxicity fishes | LC50 | OECD 203 | > 100 mg/l | 96 h | Oryzias latipes | Static system | Fresh water | Experimental value; Neutralized |
| Acute toxicity crustacea | EC50 | OECD 202 | > 334 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Neutralized |
| Toxicity algae and other aquatic plants | ErC50 | EPA OPPTS 850.5400 | > 100 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Nominal concentration |
| | NOEC | EPA OPPTS 850.5400 | 2.6 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| Toxicity aquatic micro-organisms | EC10 | Equivalent to OECD 209 | 240 mg/l | 3 h | Activated sludge | Static system | Fresh water | Read-across; Respiration |

propylidynetrimethanol, ethoxylated, esters with acrylic acid

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|-----------------------|-----------|----------|-----------|----------|-------------|---------------|------------------|---|
| Acute toxicity fishes | LC50 | OECD 203 | 1.95 mg/l | 96 h | Danio rerio | Static system | Fresh water | Experimental value; Nominal concentration |

Conclusion

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Reason for revision: 2.3; 3

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methyl methacrylate

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|--------------------------|-----------|---------------------|
| OECD 301C | 94 %; Oxygen consumption | 14 day(s) | Experimental value |

Phototransformation air (DT50 air)

| Method | Value | Conc. OH-radicals | Value determination |
|--------------|-------|------------------------|---------------------|
| AOPWIN v1.92 | 7 h | 1.5E6 /cm ³ | QSAR |

Half-life water (t1/2 water)

| Method | Value | Primary degradation/mineralisation | Value determination |
|--------|---------------------|------------------------------------|---------------------|
| | 53 month(s); pH = 7 | | Experimental value |

maleic acid

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|--------------|-----------|---------------------|
| OECD 301B | 97.08 %; GLP | 28 day(s) | Experimental value |

methacrylic acid

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|--------------------------|-----------|---------------------|
| OECD 301D | 86 %; Oxygen consumption | 28 day(s) | Experimental value |

Phototransformation air (DT50 air)

| Method | Value | Conc. OH-radicals | Value determination |
|--------------|-------|----------------------|---------------------|
| AOPWIN v1.92 | 21 h | 5E5 /cm ³ | Calculated value |

colophony

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|-----------|-----------|---------------------|
| OECD 301B | 89 %; GLP | 28 day(s) | Experimental value |

2,6-di-tert-butyl-p-cresol

Biodegradation water

| Method | Value | Duration | Value determination |
|--------|-------|-----------|---------------------|
| | 4.7 % | 28 day(s) | Experimental value |

α,α-dimethylbenzyl hydroperoxide

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|----------|-----------|---------------------|
| OECD 301B | 3 %; GLP | 28 day(s) | Experimental value |

tosyl chloride

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|--------------------------|-----------|---------------------|
| OECD 301D | 60 %; Oxygen consumption | 28 day(s) | Experimental value |

Half-life water (t1/2 water)

| Method | Value | Primary degradation/mineralisation | Value determination |
|----------|---------------------|------------------------------------|---------------------|
| OECD 111 | 2.2 minutes; pH = 7 | Primary degradation | Experimental value |

propylidynetrimethanol, ethoxylated, esters with acrylic acid

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|-----------|-----------|---------------------|
| OECD 301B | 61 %; GLP | 28 day(s) | Experimental value |

Conclusion

Water

Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

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Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------------------------|-------|-------------|---------------------|
| | Not applicable (mixture) | | | |

methyl methacrylate

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|------------------------|--------|-------|-------------|---------------------|
| Equivalent to OECD 107 | | 1.4 | 20 °C | Experimental value |

maleic acid

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|----------|--------|-------|-------------|---------------------|
| OECD 107 | | -1.3 | 20 °C | Experimental value |

methacrylic acid

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
| | | 0.93 | 22 °C | Experimental value |

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colophony

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|----------|-----------|---------------------|---------------------|
| BCF | | 23 - 129 | 30 day(s) | Oncorhynchus mykiss | Experimental value |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|----------|--------|-----------|-------------|---------------------|
| OECD 117 | | 1.9 - 6.0 | | Experimental value |

2,6-di-tert-butyl-p-cresol

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
| | | 5.1 | | |

α,α -dimethylbenzyl hydroperoxide

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|----------|--------|-------|-------------|---------------------|
| OECD 117 | | 1.6 | 25 °C | Experimental value |

tosyl chloride

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|------------------|-------|-------------|---------------------|
| | Not quantifiable | | | |

propylidynetrimethanol, ethoxylated, esters with acrylic acid

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|----------|--------|-------|-------------|---------------------|
| OECD 107 | | 2.89 | 23 °C | Experimental value |

bis[2-(acryloyloxy)ethyl] hydrogen phosphate

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
| KOWWIN | | 0.12 | | Estimated value |

2-(phosphonoxy)ethyl acrylate

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
| KOWWIN | | -0.33 | | Estimated value |

Conclusion

Contains bioaccumulative component(s)

12.4. Mobility in soil

methvl methacrylate

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|------------------|------------|---------------------|
| log Koc | EPA OTS 796.2750 | 0.94 - 1.9 | Experimental value |

maleic acid

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|--------|-------|---------------------|
| log Koc | | 1.63 | Calculated value |

Percent distribution

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|----------------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| Mackay level I | 0 % | 0 % | 0 % | 0 % | 100 % | Calculated value |

methacrylic acid

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|-------------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 0.35 - 0.67 | Calculated value |

Percent distribution

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|------------------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| Mackay level III | 0.0050 % | | 0.18 % | 0.012 % | 99.8 % | Calculated value |

colophony

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|-------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 0.9 | QSAR |

2,6-di-tert-butyl-p-cresol

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|--------------------|-------|---------------------|
| log Koc | SRC PCKOCWIN v1.66 | 4.4 | Calculated value |

Percent distribution

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|------------------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| Mackay level III | 0.37 % | | 30.4 % | 58.5 % | 10.7 % | Calculated value |

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[α,α-dimethylbenzyl hydroperoxide](#)

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|----------|-------|---------------------|
| log Koc | OECD 121 | 1.6 | Experimental value |

[tosyl chloride](#)

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|-------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 1.9 | Calculated value |

[propylidynetrimethanol, ethoxylated, esters with acrylic acid](#)

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|----------|-------|---------------------|
| log Koc | OECD 121 | 2.22 | Experimental value |

[bis\[2-\(acryloyloxy\)ethyl\] hydrogen phosphate](#)

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|---------------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 0.964 - 1.156 | Calculated value |

[2-\(phosphonoxy\)ethyl acrylate](#)

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|---------------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 0.780 - 1.000 | Calculated value |

Conclusion

Contains component(s) with potential for mobility in the soil
Contains component(s) that adsorb(s) into the soil

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.7. Other adverse effects

[MEGAPLAST MM A](#)

Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

Groundwater

Groundwater pollutant

[methyl methacrylate](#)

Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

Groundwater

Groundwater pollutant

[maleic acid](#)

Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

Groundwater

Groundwater pollutant

Water ecotoxicity pH

pH shift

[methacrylic acid](#)

Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

Groundwater

Groundwater pollutant

Water ecotoxicity pH

pH shift

[colophony](#)

Groundwater

Groundwater pollutant

[tosyl chloride](#)

Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

Groundwater

Groundwater pollutant

Reason for revision: 2.3; 3

Publication date: 2019-12-04

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Revision number: 0200

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propylidynetrimethanol, ethoxylated, esters with acrylic acid

Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 09* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste.

Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment. Dispose of at authorized waste collection point. Contains no organic halogen which may add to the AOX value.

13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1. UN number or ID number

| | |
|-----------|------|
| UN number | 1133 |
|-----------|------|

14.2. UN proper shipping name

| | |
|----------------------|-----------|
| Proper shipping name | adhesives |
|----------------------|-----------|

14.3. Transport hazard class(es)

| | |
|------------------------------|----|
| Hazard identification number | |
| Class | 3 |
| Classification code | F1 |

14.4. Packing group

| | |
|---------------|-----|
| Packing group | III |
| Labels | 3 |

14.5. Environmental hazards

| | |
|--|----|
| Environmentally hazardous substance mark | no |
|--|----|

14.6. Special precautions for user

| | |
|--------------------|---|
| Special provisions | |
| Limited quantities | Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass). |
| Specific mention | Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 2.2.3.1.4 of ADR |

Rail (RID)

14.1. UN number or ID number

| | |
|-----------|------|
| UN number | 1133 |
|-----------|------|

14.2. UN proper shipping name

| | |
|----------------------|-----------|
| Proper shipping name | adhesives |
|----------------------|-----------|

14.3. Transport hazard class(es)

| | |
|------------------------------|----|
| Hazard identification number | 33 |
| Class | 3 |
| Classification code | F1 |

14.4. Packing group

| | |
|---------------|-----|
| Packing group | III |
| Labels | 3 |

14.5. Environmental hazards

| | |
|--|----|
| Environmentally hazardous substance mark | no |
|--|----|

14.6. Special precautions for user

| | |
|--------------------|---|
| Special provisions | |
| Limited quantities | Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass). |
| Specific mention | Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 2.2.3.1.4 of RID |

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Inland waterways (ADN)

| | | |
|------------------------------------|--|---|
| 14.1. UN number or ID number | UN number/ID number | 1133 |
| 14.2. UN proper shipping name | Proper shipping name | adhesives |
| 14.3. Transport hazard class(es) | Class | 3 |
| | Classification code | F1 |
| 14.4. Packing group | Packing group | III |
| | Labels | 3 |
| 14.5. Environmental hazards | Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | Special provisions | |
| | Limited quantities | Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass). |
| | Specific mention | Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 2.2.3.1.4 of ADN |

Sea (IMDG/IMSBC)

| | | |
|---|--|---|
| 14.1. UN number or ID number | UN number | 1133 |
| 14.2. UN proper shipping name | Proper shipping name | adhesives |
| 14.3. Transport hazard class(es) | Class | 3 |
| 14.4. Packing group | Packing group | III |
| | Labels | 3 |
| 14.5. Environmental hazards | Marine pollutant | - |
| | Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | Special provisions | 223 |
| | Special provisions | 955 |
| | Limited quantities | Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass). |
| | Specific mention | Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 2.3.2.2 of IMDG |
| 14.7. Maritime transport in bulk according to IMO instruments | Annex II of MARPOL 73/78 | Not applicable, based on available data |

Air (ICAO-TI/IATA-DGR)

| | | |
|------------------------------------|--|--|
| 14.1. UN number or ID number | UN number/ID number | 1133 |
| 14.2. UN proper shipping name | Proper shipping name | adhesives |
| 14.3. Transport hazard class(es) | Class | 3 |
| 14.4. Packing group | Packing group | III |
| | Labels | 3 |
| 14.5. Environmental hazards | Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | Special provisions | A3 |
| | Specific mention | Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 3.3.3.1 of ICAO |
| Passenger and cargo transport | Limited quantities: maximum net quantity per packaging | 10 L |

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

| VOC content | Remark |
|-------------------|--------|
| 50 % - 80 % | |
| 508 g/l - 812 g/l | |

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Directive 2012/18/EU (Seveso III)

Threshold values under special circumstances

| Substance or category | Special circumstances | Low tier (tonnes) | Top tier (tonnes) | Group | For this substance or mixture the summation rule has to be applied for: |
|-----------------------|--|-------------------|-------------------|-------|---|
| P5b FLAMMABLE LIQUIDS | Particular processing conditions, such as high pressure or high temperature, may create major-accident hazards | 50 | 200 | None | Flammability |
| P5a FLAMMABLE LIQUIDS | Maintained at a temperature above the boiling point | 10 | 50 | None | Flammability |

Threshold values under normal circumstances

| Substance or category | Low tier (tonnes) | Top tier (tonnes) | Group | For this substance or mixture the summation rule has to be applied for: |
|-----------------------|-------------------|-------------------|-------|---|
| P5c FLAMMABLE LIQUIDS | 5000 | 50000 | None | Flammability |

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

| | Designation of the substance, of the group of substances or of the mixture | Conditions of restriction |
|--|--|---|
| <ul style="list-style-type: none">· methyl methacrylate· methacrylic acid· α,α-dimethylbenzyl hydroperoxide· propyldynetrimehanol, ethoxylated, esters with acrylic acid | Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. | <ol style="list-style-type: none">1. Shall not be used in:<ul style="list-style-type: none">— ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,— tricks and jokes,— games for one or more participants, or any article intended to be used as such, even with ornamental aspects,2. Articles not complying with paragraph 1 shall not be placed on the market.3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:<ul style="list-style-type: none">— can be used as fuel in decorative oil lamps for supply to the general public, and,— present an aspiration hazard and are labelled with H304,4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:<ul style="list-style-type: none">a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life- threatening lung damage";b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage";c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010. |
| <ul style="list-style-type: none">· methyl methacrylate | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not. | <ol style="list-style-type: none">1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:<ul style="list-style-type: none">— metallic glitter intended mainly for decoration,— artificial snow and frost,— "whoopee" cushions,— silly string aerosols,— imitation excrement,— horns for parties,— decorative flakes and foams,— artificial cobwebs,— stink bombs.2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: "For professional users only".3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC.4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated. |
| <ul style="list-style-type: none">· methyl methacrylate· maleic acid· methacrylic acid· colophony· α,α-dimethylbenzyl hydroperoxide | Substances falling within one or more of the following points: (a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008: <ul style="list-style-type: none">— carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances classified due to effects only following | Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2081 |

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exposure by inhalation
 — reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation
 — skin sensitiser category 1, 1A or 1B
 — skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2
 — serious eye damage category 1 or eye irritant category 2
 (b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council
 (c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this Annex.
 The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all mixtures for use for tattooing purposes, whether or not they contain a substance falling within points (a) to (d) of this column of this entry.

National legislation Belgium

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No data available

National legislation The Netherlands

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| | |
|----------------------|---|
| Waterbezwaarlijkheid | A (3); Algemene Beoordelingsmethodiek (ABM) |
|----------------------|---|

National legislation France

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No data available

National legislation Germany

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| | |
|-----------------------|------------------------------|
| Lagerklasse (TRGS510) | 3: Entzündbare Flüssigkeiten |
|-----------------------|------------------------------|

| | |
|-----|--|
| WGK | 1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 |
|-----|--|

methyl methacrylate

| | |
|---------|-------|
| TA-Luft | 5.2.5 |
|---------|-------|

| | |
|---------------------------------------|---|
| TRGS900 - Risiko der Fruchtschädigung | Methyl-methacrylat; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden |
|---------------------------------------|---|

maleic acid

| | |
|---------|-------|
| TA-Luft | 5.2.1 |
|---------|-------|

methacrylic acid

| | |
|---------|---------|
| TA-Luft | 5.2.5/I |
|---------|---------|

| | |
|---------------------------------------|---|
| TRGS900 - Risiko der Fruchtschädigung | Methacrylsäure; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden |
|---------------------------------------|---|

colophony

| | |
|---------|-------|
| TA-Luft | 5.2.1 |
|---------|-------|

2,6-di-tert-butyl-p-cresol

| | |
|---------|---------|
| TA-Luft | 5.2.5/I |
|---------|---------|

| | |
|---------------------------------------|---|
| TRGS900 - Risiko der Fruchtschädigung | 2,6-Di-tert-butyl-p-kresol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden |
|---------------------------------------|---|

α,α -dimethylbenzyl hydroperoxide

| | |
|---------|-------|
| TA-Luft | 5.2.5 |
|---------|-------|

tosyl chloride

| | |
|---------|-------|
| TA-Luft | 5.2.1 |
|---------|-------|

propylidynetrimethanol, ethoxylated, esters with acrylic acid

| | |
|---------|-------|
| TA-Luft | 5.2.5 |
|---------|-------|

bis[2-(acryloyloxy)ethyl] hydrogen phosphate

| | |
|---------|-------|
| TA-Luft | 5.2.1 |
|---------|-------|

2-(phosphonoxy)ethyl acrylate

| | |
|---------|-------|
| TA-Luft | 5.2.1 |
|---------|-------|

National legislation Austria

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No data available

methyl methacrylate

| | |
|--------------------------------------|-----------------------|
| Gefahr der Sensibilisierung der Haut | Methylmethacrylat; Sh |
|--------------------------------------|-----------------------|

National legislation United Kingdom

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No data available

colophony

| | |
|---------------------------|-----------------------------------|
| Skin Sensitisation | Rosin-based solder flux fume; Sen |
| Respiratory sensitisation | Rosin-based solder flux fume; Sen |

Other relevant data

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No data available

methyl methacrylate

| | |
|--------------------------|---|
| TLV - Skin Sensitisation | Methyl methacrylate; SEN; Sensitization |
| TLV - Carcinogen | Methyl methacrylate; A4 |
| IARC - classification | 3; Methyl methacrylate |

colophony

| | |
|---------------------------------|---|
| TLV - Skin Sensitisation | Resin acids, as total Resin acids; SEN; Sensitization |
| TLV - Respiratory Sensitisation | Resin acids, as total Resin acids; SEN; Sensitization |

2,6-di-tert-butyl-p-cresol

| | |
|-----------------------|-----------------------------------|
| IARC - classification | 3; Butylated hydroxytoluene (bht) |
| TLV - Carcinogen | Butylated hydroxytoluene; A4 |

15.2. Chemical safety assessment

No chemical safety assessment is required for a mixture.

SECTION 16: Other information

Full text of any H- and EUH-statements referred to under section 3:

H225 Highly flammable liquid and vapour.
H242 Heating may cause a fire.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
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.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs (lungs) through prolonged or repeated exposure if inhaled.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

| | |
|--------------|---|
| (*) | INTERNAL CLASSIFICATION BY BIG |
| ADI | Acceptable daily intake |
| AOEL | Acceptable operator exposure level |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration Factor |
| BEI | Biological Exposure Indices |
| CLP (EU-GHS) | Classification, labelling and packaging (Globally Harmonised System in Europe) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| EC10 | Effect Concentration 10 % |
| EC50 | Effect Concentration 50 % |
| ErC50 | EC50 in terms of reduction of growth rate |
| GLP | Good Laboratory Practice |
| LC0 | Lethal Concentration 0 % |
| LC50 | Lethal Concentration 50 % |
| LD50 | Lethal Dose 50 % |
| LOAEC/LOAEL | Lowest Observed Adverse Effect Concentration/Lowest Observed Adverse Effect Level |
| NOAEC/NOAEL | No Observed Adverse Effect Concentration/No Observed Adverse Effect Level |
| NOEC/NOEL | No Observed Effect Concentration/No Observed Effect Level |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent, Bioaccumulative & Toxic |
| PNEC | Predicted No Effect Concentration |
| STP | Sludge Treatment Process |
| vPvB | very Persistent & very Bioaccumulative |

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does

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