

SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830



ANCHOR A

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

1.1. Product identifier

Product name : ANCHOR 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

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

TEC7*
Industrielaan 5B
B-2250 Olen
☎ +32 14 85 97 37
☎ +32 14 85 97 38
info@tec7.be
*TEC7 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@tec7.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 |
|------------|------------|--|
| Skin Sens. | category 1 | H317: May cause an allergic skin reaction. |
| STOT SE | category 3 | H335: May cause respiratory irritation. |

2.2. Label elements



Contains: ethylene dimethacrylate; hydroxypropyl methacrylate.

Signal word Warning

H-statements

H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

P-statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear protective gloves, protective clothing and eye protection/face protection.
P271 Use only outdoors or in a well-ventilated area.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)
Technische Schoolstraat 43 A, B-2440 Geel
<http://www.big.be>
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P405

Store locked up.

P501

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

2.3. Other hazards

No other hazards known

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 |
|----------------------------------|-------------------------|-----------|---|------------|-------------|
| ethylene dimethacrylate | 97-90-5 202-617-2 | 10%≤C<15% | Skin Sens. 1; H317 STOT SE 3; H335 | (1)(8)(10) | Constituent |
| hydroxypropyl methacrylate | 27813-02-1 248-666-3 | 1%<C<10% | Skin Sens. 1; H317 Eye Irrit. 2; H319 | (1)(10) | Constituent |
| quartz (SiO ₂) | 14808-60-7 238-878-4 | 1%≤C<5 % | STOT RE 1; H372 | (5)(1)(2) | Constituent |
| 1,1'-(p-tolylimino)dipropan-2-ol | 38668-48-3 254-075-1 | C<1% | Acute Tox. 2; H300 Eye Dam. 1; H318 Aquatic Chronic 3; H412 | (1) | Constituent |

(1) For H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(5) This component is physically bound in the product

(8) Specific concentration limits, see heading 16

(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:

If you feel unwell, seek medical advice.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact:

Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms

After inhalation:

Irritation of the respiratory tract.

After skin contact:

No effects known.

After eye contact:

No effects known.

After ingestion:

No effects known.

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

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:

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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:

No specific fire-fighting instructions required.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Contain released product.

6.3. Methods and material for containment and cleaning up

Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

See heading 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. Observe very strict hygiene - avoid contact. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: 5 °C - 25 °C. Store in a cool area. Store in a dry area. Keep container in a well-ventilated place. Keep only in the original container. Meet the legal requirements.

7.2.2 Keep away from:

Heat 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.

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.

b) National biological limit values

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

8.1.2 Sampling methods

If applicable and available it will be listed below.

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 DNEL/PNEC values

DNEL/DMEL - Workers

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ethylene dimethacrylate

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|-----------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects oral | 2.45 mg/m ³ | |
| | Long-term systemic effects dermal | 1.3 mg/kg bw/day | |

hydroxypropyl methacrylate

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 14.7 mg/m ³ | |
| | Long-term systemic effects dermal | 4.2 mg/kg bw/day | |

1,1'-(p-tolylimino)dipropan-2-ol

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|---------------------|--------|
| DNEL | Long-term systemic effects inhalation | 2 mg/m ³ | |
| | Long-term systemic effects dermal | 0.6 mg/kg bw/day | |

DNEL/DMEL - General population

ethylene dimethacrylate

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 1.47 mg/m ³ | |
| | Long-term systemic effects dermal | 100 mg/kg bw/day | |
| | Long-term systemic effects oral | 100 mg/kg bw/day | |

hydroxypropyl methacrylate

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 8.8 mg/m ³ | |
| | Long-term systemic effects dermal | 2.5 mg/kg bw/day | |
| | Long-term systemic effects oral | 2.5 mg/kg bw/day | |

1,1'-(p-tolylimino)dipropan-2-ol

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 0.4 mg/m ³ | |
| | Long-term systemic effects dermal | 0.3 mg/kg bw/day | |
| | Long-term systemic effects oral | 0.3 mg/kg bw/day | |

PNEC

ethylene dimethacrylate

| Compartments | Value | Remark |
|------------------------------|------------------------|--------|
| Fresh water | 0.139 mg/l | |
| Marine water | 0.014 mg/l | |
| Aqua (intermittent releases) | 0.15 mg/l | |
| STP | 57 mg/l | |
| Fresh water sediment | 1.6 mg/kg sediment dw | |
| Marine water sediment | 0.16 mg/kg sediment dw | |
| Soil | 0.239 mg/kg soil dw | |

hydroxypropyl methacrylate

| Compartments | Value | Remark |
|-----------------------|------------------------|--------|
| Fresh water | 0.904 mg/l | |
| Marine water | 0.904 mg/l | |
| STP | 10 mg/l | |
| Fresh water sediment | 6.28 mg/kg sediment dw | |
| Marine water sediment | 6.28 mg/kg sediment dw | |
| Soil | 0.727 mg/kg soil dw | |

1,1'-(p-tolylimino)dipropan-2-ol

| Compartments | Value | Remark |
|------------------------------|---------------------------|--------|
| Fresh water | 0.017 mg/l | |
| Marine water | 0.0017 mg/l | |
| Aqua (intermittent releases) | 0.17 mg/l | |
| STP | 199.5 mg/l | |
| Fresh water sediment | 0.0782 mg/kg sediment dw | |
| Marine water sediment | 0.00782 mg/kg sediment dw | |
| Soil | 0.005 mg/kg soil dw | |

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. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Keep container tightly closed. 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:

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Gloves.

| Materials | Breakthrough time | Thickness |
|----------------|-------------------|-----------|
| nitrile rubber | > 480 minutes | 0.5 mm |

- materials (good resistance)

Nitrile rubber.

c) Eye protection:

Face shield.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------------|--|
| Physical form | Paste |
| Odour | Characteristic odour |
| Odour threshold | No data available |
| Colour | Light beige |
| Particle size | No data available |
| Explosion limits | No data available |
| Flammability | Non-flammable |
| Log Kow | Not applicable (mixture) |
| Dynamic viscosity | No data available |
| Kinematic viscosity | No data available |
| Melting point | No data available |
| Boiling point | No data available |
| Evaporation rate | No data available |
| Relative vapour density | Not applicable |
| Vapour pressure | No data available |
| Solubility | Water ; insoluble |
| Relative density | 1.72 ; 20 °C |
| Decomposition temperature | No data available |
| Auto-ignition temperature | No data available |
| Flash point | No data available |
| Explosive properties | No chemical group associated with explosive properties |
| Oxidising properties | No chemical group associated with oxidising properties |
| pH | No data available |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating increases the fire hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts with (strong) oxidizers.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat.

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 toxicological effects

11.1.1 Test results

Acute toxicity

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

ethylene dimethacrylate

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|----------|-----------------|---------------|-------------------|---------------------|--------|
| Oral | LD50 | Other | 8700 mg/kg | | Rat (male/female) | Literature study | |
| Dermal | LD50 | OECD 402 | > 2000 mg/kg bw | 24 h | Rat (male/female) | Experimental value | |
| Inhalation | | | | | | Data waiving | |

hydroxypropyl methacrylate

| 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 | | ≥ 5000 mg/kg bw | 24 h | Rabbit (male) | Experimental value | |
| Inhalation | | | | | | Data waiving | |

1,1'-(p-tolylimino)dipropan-2-ol

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|----------|----------------------------|---------------|-------------------|---------------------|--------|
| Oral | LD50 | OECD 423 | 25 mg/kg bw - 200 mg/kg bw | | Rat (male/female) | Experimental value | |
| Dermal | LD50 | OECD 402 | > 2000 mg/kg bw/day | 24 h | Rat (male/female) | Experimental value | |
| Inhalation | | | | | | Data waiving | |

Conclusion

Not classified for acute toxicity

Corrosion/irritation

ANCHOR A

No (test)data on the mixture available

Classification is based on the relevant ingredients

ethylene dimethacrylate

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|------------------|---------------|--------------|---------|---------------------|--------|
| Eye | Not irritating | Other | 72 h | 7 days | Rabbit | Experimental value | |
| Skin | Not irritating | Draize Skin Test | 24 h | 24; 72 hours | Rabbit | Weight of evidence | |
| Inhalation | Irritating | | | | | Literature study | |

hydroxypropyl methacrylate

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|-------------|---------------|-----------------------|---------|---------------------|--------|
| Eye | Not irritating | Draize Test | | 1; 2; 3; 4; 5; 7 days | Rabbit | Experimental value | |
| Eye | Irritating | Draize Test | | | Rabbit | Literature study | |
| Skin | Not irritating | | 24 h | 24; 72 hours | Rabbit | Experimental value | |

1,1'-(p-tolylimino)dipropan-2-ol

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|----------|---------------|--------------------------|---------|---------------------|--------|
| Eye | Irritating | OECD 405 | 24 h | 1; 24; 48; 72; 168 hours | Rabbit | Experimental value | |
| Skin | Not irritating | OECD 404 | 4 h | 1; 24; 48; 72; 168 hours | Rabbit | Experimental value | |

Conclusion

May cause respiratory irritation.

Not classified as irritating to the skin

Not classified as irritating to the eyes

Respiratory or skin sensitisation

ANCHOR A

No (test)data on the mixture available

Classification is based on the relevant ingredients

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ethylene dimethacrylate

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-------------|----------|---------------|------------------------|----------------|---------------------|--------|
| Skin | Sensitizing | OECD 406 | | | Mouse (female) | Experimental value | |
| Skin | Sensitizing | | | | Human | Experimental value | |

hydroxypropyl methacrylate

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|--------------------------|---------------|------------------------|---------------------|---------------------|--------|
| Skin | Sensitizing | Patch test on human skin | | | Human (male/female) | Literature study | |
| Skin | Not sensitizing | Equivalent to OECD 429 | | | Mouse (female) | Experimental value | |

1,1'-(p-tolylimino)dipropen-2-ol

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|----------|---------------|------------------------|---------------------|---------------------|--------|
| Skin | Not sensitizing | OECD 406 | | 24; 48 hours | Guinea pig (female) | Experimental value | |

Conclusion

May cause an allergic skin reaction.
Not classified as sensitizing for inhalation

Specific target organ toxicity

ANCHOR A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

ethylene dimethacrylate

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|-------------------|-----------|----------|------------------|---------|--|-------------------------------|-------------------|---------------------|
| Oral | NOAEL | OECD 422 | 100 mg/kg bw/day | General | Reduced body weight and food consumption; CNS effects; signs of necropsy | 49 day(s) | Rat (male/female) | Experimental value |
| Dermal | NOAEL | Other | 100 mg/kg bw/day | Skin | Irritation | 78 weeks (daily, 5 days/week) | Mouse (male) | Read-across |

hydroxypropyl methacrylate

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---------------------|-----------|------------------------|--------------|-------|-----------|-------------------------------|-------------------|---------------------|
| Oral (stomach tube) | NOAEL | OECD 422 | 300 mg/kg bw | | No effect | 49 day(s) | Rat (male) | Experimental value |
| Dermal | | | | | | | | Data waiving |
| Inhalation | NOAEL | Subacute toxicity test | 0.5 mg/l | | No effect | 3 weeks (6h/day, 5 days/week) | Rat (male/female) | Literature study |

1,1'-(p-tolylimino)dipropen-2-ol

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---------------------|------------------------|----------|-----------------|-------|-----------------------------|---------------|--------------|---------------------|
| Oral (stomach tube) | NOAEL systemic effects | OECD 422 | 40 mg/kg bw/day | | No adverse systemic effects | | Rat (male) | Experimental value |
| Oral (stomach tube) | NOAEL systemic effects | OECD 422 | 20 mg/kg bw/day | | No adverse systemic effects | | Rat (female) | Experimental value |

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

ANCHOR A

No (test)data on the mixture available

ethylene dimethacrylate

| Result | Method | Test substrate | Effect | Value determination |
|----------|--------|-------------------|--------|---------------------|
| Negative | | Mouse fibroblasts | | Experimental value |

hydroxypropyl methacrylate

| Result | Method | Test substrate | Effect | Value determination |
|---|----------|--------------------------|--------|---------------------|
| Negative with metabolic activation, negative without metabolic activation | OECD 471 | Bacteria (S.typhimurium) | | Experimental value |

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1,1'-(p-tolylimino)dipropan-2-ol

| Result | Method | Test substrate | Effect | Value determination |
|---|----------|--------------------------|-----------|---------------------|
| Negative with metabolic activation, negative without metabolic activation | OECD 471 | Bacteria (S.typhimurium) | No effect | Experimental value |

Mutagenicity (in vivo)

ANCHOR A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

ethylene dimethacrylate

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------|----------|---------------|---------------------|-------|---------------------|
| Negative | OECD 474 | | Mouse (male/female) | | Experimental value |

hydroxypropyl methacrylate

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------|----------|---------------|---------------------|-------|---------------------|
| Negative | OECD 474 | | Mouse (male/female) | | Experimental value |

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

ANCHOR A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydroxypropyl methacrylate

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|-----------------------|-----------|-----------------------------|---------------------|---------------------------------|------------|------------------------|-------|---------------------|
| Inhalation (vapours) | NOAEC | Equivalent to OECD 451 | ≥ 1000 ppm | 102 weeks (6h/day, 5 days/week) | Rat (male) | No carcinogenic effect | | Experimental value |
| Oral (drinking water) | NOAEL | Carcinogenic toxicity study | ≥ 90.3 mg/kg bw/day | 104 weeks (daily) | Rat (male) | | | Experimental value |

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

ANCHOR A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

ethylene dimethacrylate

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|------------------------|------------|----------|---------------------|---------------|-------------------|--|-------|---------------------|
| Developmental toxicity | NOAEL (F1) | OECD 422 | ≥ 1000 mg/kg bw/day | 49 day(s) | Rat (male/female) | No effect | | Read-across |
| | NOAEL | OECD 414 | 500 mg/kg bw/day | 15 day(s) | Rat | No effect | | Experimental value |
| Effects on fertility | NOAEL (P) | OECD 422 | > 1000 mg/kg bw/day | 49 day(s) | Rat (male/female) | Change in the haemogramme/ blood composition | Blood | Read-across |

hydroxypropyl methacrylate

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|------------------------|--------------|----------|------------------|------------------|-------------------|--|-------|---------------------|
| Developmental toxicity | NOAEL | OECD 414 | 450 mg/kg bw/day | 23 day(s) | Rabbit | No effect | | Experimental value |
| | NOAEC | OECD 414 | ≥ 8.3 mg/l air | 10 days (6h/day) | Rat | No effect | | Experimental value |
| Maternal toxicity | LOEC | OECD 414 | 0.41 mg/l air | 10 days (6h/day) | Rat | Reduced body weight and food consumption | | Experimental value |
| | NOAEL | OECD 414 | 50 mg/kg bw/day | 23 day(s) | Rabbit | No effect | | Experimental value |
| Effects on fertility | NOAEL (P/F1) | OECD 416 | 400 mg/kg bw/day | | Rat (male/female) | No effect | | Experimental value |

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1,1'-(p-tolylimino)dipropan-2-ol

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|----------------------|-----------|----------|-----------------|---------------|--------------|-----------|---------------------------|---------------------|
| Effects on fertility | NOAEL (P) | OECD 422 | 40 mg/kg bw/day | | Rat (male) | No effect | Male reproductive organ | Experimental value |
| | NOAEL (P) | OECD 422 | 20 mg/kg bw/day | | Rat (female) | No effect | Female reproductive organ | |

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

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No (test)data on the mixture available

Chronic effects from short and long-term exposure

ANCHOR A

Skin rash/inflammation.

SECTION 12: Ecological information

12.1. Toxicity

ANCHOR A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

ethylene dimethacrylate

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|----------|------------|-----------|---------------------------------|--------------------|------------------|-------------------------|
| Acute toxicity fishes | LC50 | OECD 203 | 15.95 mg/l | 96 h | Danio rerio | Static system | | Experimental value; GLP |
| Acute toxicity crustacea | EC50 | OECD 202 | 44.9 mg/l | 48 h | Daphnia magna | Static system | | Experimental value; GLP |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | 19 mg/l | 96 h | Pseudokirchneriella subcapitata | Static system | | Experimental value; GLP |
| Long-term toxicity aquatic crustacea | NOEC | OECD 211 | 5.05 mg/l | 21 day(s) | Daphnia magna | Semi-static system | | Experimental value; GLP |
| Toxicity aquatic micro-organisms | EC50 | ISO 8192 | 570 mg/l | 3 h | Activated sludge | Static system | Fresh water | Experimental value; GLP |

hydroxypropyl methacrylate

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|--------------|-------------|-----------|---------------------------------|--------------------|------------------|-------------------------|
| Acute toxicity fishes | LC50 | DIN 38412-15 | 493 mg/l | 48 h | Leuciscus idus | Static system | Fresh water | Experimental value; GLP |
| Acute toxicity crustacea | EC50 | OECD 202 | > 143 mg/l | 48 h | Daphnia magna | Semi-static system | Fresh water | Experimental value; GLP |
| Toxicity algae and other aquatic plants | EC50 | OECD 201 | > 97.2 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; GLP |
| | NOEC | OECD 201 | > 97.2 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; GLP |
| Long-term toxicity aquatic crustacea | NOEC | OECD 211 | 45.2 mg/l | 21 day(s) | Daphnia magna | Semi-static system | Fresh water | Experimental value; GLP |

1,1'-(p-tolylimino)dipropan-2-ol

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|----------|-------------|------------|-------------------------|---------------|------------------|---|
| Acute toxicity fishes | LC50 | Other | 17 mg/l | 96 h | Danio rerio | Static system | Fresh water | Experimental value; Nominal concentration |
| Acute toxicity crustacea | EC50 | OECD 202 | 28.8 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; GLP |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | 245 mg/l | 72 h | Desmodesmus subspicatus | Static system | Salt water | Experimental value; GLP |
| Toxicity aquatic micro-organisms | EC10 | OECD 209 | > 1995 mg/l | 30 minutes | Activated sludge | Static system | Fresh water | Experimental value |

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

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12.2. Persistence and degradability

ethylene dimethacrylate

Biodegradation water

| Method | Value | Duration | Value determination |
|---|-----------|-----------|---------------------|
| OECD 301F: Manometric Respirometry Test | 69 %; GLP | 28 day(s) | Experimental value |

Phototransformation air (DT50 air)

| Method | Value | Conc. OH-radicals | Value determination |
|--------------|---------|-------------------------|---------------------|
| AOPWIN v1.92 | 9.644 h | 500000 /cm ³ | Calculated value |

Half-life water (t1/2 water)

| Method | Value | Primary degradation/mineralisation | Value determination |
|----------------|----------------------------|------------------------------------|---------------------|
| Hydrowin v2.00 | 1.6 year(s) - 15.7 year(s) | Primary degradation | Calculated value |

hydroxypropyl methacrylate

Biodegradation water

| Method | Value | Duration | Value determination |
|---|--------|-----------|---------------------|
| OECD 301E: Modified OECD Screening Test | 94.2 % | 28 day(s) | Experimental value |

1,1'-(p-tolyimino)dipropan-2-ol

Biodegradation water

| Method | Value | Duration | Value determination |
|-------------------------------|-------------|-----------|---------------------|
| OECD 301B: CO2 Evolution Test | 39.1 %; GLP | 28 day(s) | Experimental value |

Phototransformation air (DT50 air)

| Method | Value | Conc. OH-radicals | Value determination |
|---------------|---------|-------------------------|---------------------|
| SRC AOP v1.92 | 1.762 h | 500000 /cm ³ | QSAR |

Conclusion

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) | | | |

ethylene dimethacrylate

BCF other aquatic organisms

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------------|-------|----------|---------|---------------------|
| BCF | BCFBAF v3.00 | 2.96 | | | QSAR |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|----------|--------|-------|-------------|---------------------|
| OECD 102 | | 2.4 | | Experimental value |

hydroxypropyl methacrylate

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|-----------|----------|---------|---------------------|
| BCF | | ≤ 100 | | Pisces | |
| | | 3.2; QSAR | | Pisces | |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|----------|--------|-------|-------------|---------------------|
| OECD 102 | | 0.97 | | |

1,1'-(p-tolyimino)dipropan-2-ol

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|----------|--------|-------|-------------|---------------------|
| OECD 107 | | 2.1 | 24 °C | Experimental value |

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

ethylene dimethacrylate

Volatility (Henry's Law constant H)

| Value | Method | Temperature | Remark | Value determination |
|-------------------------------------|--------------------|-------------|--------|---------------------|
| 0.000000378 atm m ³ /mol | SRC HENRYWIN v3.20 | 25 °C | | Calculated value |

Percent distribution

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|------------------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| Mackay level III | 42.7 % | | 0.0378 % | 43.8 % | 13.5 % | Calculated value |

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hydroxypropyl methacrylate

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|--------|-------|---------------------|
| Koc | | 80 | Estimated value |

Volatility (Henry's Law constant H)

| Value | Method | Temperature | Remark | Value determination |
|-----------------------------------|--------------------|-------------|--------|---------------------|
| 2.33E-008 atm m ³ /mol | | 25 °C | | Estimated value |
| 0.000946 Pa.m ³ /mol | SRC HENRYWIN v3.20 | 25 °C | | Estimated value |

1,1'-(p-tolylimino)dipropan-2-ol

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|--------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 0.9185 | Calculated value |

Volatility (Henry's Law constant H)

| Value | Method | Temperature | Remark | Value determination |
|----------------------------------|--------------------|-------------|--------|---------------------|
| 0.0000398 Pa.m ³ /mol | SRC HENRYWIN v3.20 | 25 °C | | Calculated value |

Conclusion

Contains component(s) that adsorb(s) into the soil
 Contains component(s) with potential for mobility in 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. Other adverse effects

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Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

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

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.

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), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

14.1. UN number

| | |
|-----------|-------------|
| Transport | Not subject |
|-----------|-------------|

14.2. UN proper shipping name

14.3. Transport hazard class(es)

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

14.4. Packing group

| | |
|---------------|--|
| Packing group | |
| Labels | |

14.5. Environmental hazards

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

14.6. Special precautions for user

| | |
|--------------------|--|
| Special provisions | |
| Limited quantities | |

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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Annex II of MARPOL 73/78

Not applicable, based on available data

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 |
|-------------|--------|
| 6.9 % | |

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"> · ethylene dimethacrylate · hydroxypropyl methacrylate | <p>Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008:</p> <p>(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;</p> <p>(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;</p> <p>(c) hazard class 4.1;</p> <p>(d) hazard class 5.1.</p> | <p>1. Shall not be used in:</p> <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, <p>2. Articles not complying with paragraph 1 shall not be placed on the market.</p> <p>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:</p> <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 R65 or H304, <p>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).</p> <p>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:</p> <p>a) lamp oils, labelled with R65 or 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";</p> <p>b) grill lighter fluids, labelled with R65 or 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";</p> <p>c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.</p> <p>6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.</p> <p>7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'</p> |

National legislation Belgium

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No data available

National legislation The Netherlands

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| | |
|---------------------|-------|
| Waterbevaarlijkheid | B (4) |
|---------------------|-------|

National legislation France

ANCHOR A

No data available

National legislation Germany

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| | |
|-----|---|
| WGK | 1; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4) |
|-----|---|

ethylene dimethacrylate

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

hydroxypropyl methacrylate

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

1,1'-(p-tolylimino)dipropan-2-ol

| | |
|---------|----------|
| TA-Luft | 5.2.5; I |
|---------|----------|

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National legislation United Kingdom

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No data available

Other relevant data

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No data available

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

Full text of any H-statements referred to under heading 3:

H300 Fatal if swallowed.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H372 Causes damage to organs through prolonged or repeated exposure if inhaled.
H412 Harmful to aquatic life with long lasting effects.

| | |
|--------------|--|
| (*) | INTERNAL CLASSIFICATION BY BIG |
| CLP (EU-GHS) | Classification, labelling and packaging (Globally Harmonised System in Europe) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| EC50 | Effect Concentration 50 % |
| ERC50 | EC50 in terms of reduction of growth rate |
| LCS0 | Lethal Concentration 50 % |
| LD50 | Lethal Dose 50 % |
| NOAEL | No Observed Adverse Effect Level |
| NOEC | No Observed Effect Concentration |
| 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 |

Specific concentration limits CLP

| | | | |
|-------------------------|----------|-----------------|----------------------|
| ethylene dimethacrylate | C ≥ 10 % | STOT SE 3; H335 | CLP Annex VI (ATP 0) |
|-------------------------|----------|-----------------|----------------------|

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. Old versions must be destroyed. 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 not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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