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BOSSARD
Proven Productivity

# SAFETY DATA SHEET

According to Annex II to REACH - Regulation 2015/830



**EHE01** Dual component system in glass capsule for anchorage in construction materials, Vinilester-based resin

## 1 - Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

| | |
|---|---|
| Product form | Mixture |
| Trade name | EHE 01 M8, EHE 01 M10, EHE 01 M12, EHE 01 M14, EHE 01 M16, EHE 01 M20, EHE 01 M22, EHE 01 M24, EHE 01 M30 |
| Product group | Trade product |

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

#### 1.2.1. Relevant identified uses

| | |
|---|---|
| Main use category | Industrial use,Professional use |
| Use of the substance/mixture | Building and construction work |

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

| | |
|---|---|
| **Name**<br>**Full Address**<br>**District and Country**<br>**e-mail**<br>(of the competent person responsible for the Safety Data Sheet) | **Bossard AG**<br>Steinhauserstrasse 70<br>CH-6301 Zug<br>+41 41 749 66 11<br>bossard@bossard.com<br>www.bossard.com |

### 1.4. Emergency telephone number

| | |
|---|---|
| **Emergency number** | EN: +49 (0)551-19240 (GIZ-Nord, German and English, 24/7)<br>DE: Schweiz: 145 Int.: +41 44 251 51 51 (Schweizerisches Toxikologisches Informationszentrum - 24 h)<br>IT: Svizzera: 145 Int.: +41 44 251 51 51 (Il Centro svizzero d'informazione tossicologica - 24 ore su 24)<br>FR: Tox Info Suisse: 145 Int.: +41 44 251 51 51 (Le Centre Suisse d'Information Toxicologique - 24h sur 24h) |

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

| | |
|---|---|
| Flam. Liq. 3 | H226 |
| Acute Tox. 4 (Oral) | H302 |
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2 | H319 |
| Skin Sens. 1 | H317 |
| Repr. 2 | H361d |
| STOT RE 1 | H372 |
| Aquatic Chronic 2 | H411 |

Full text of H- and EUH-statements: see section 16

## 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP)

**GHS02** Flammable

**GHS07** Harmful

**GHS08** Health hazard

**GHS09** Environmental hazard

Signal word: Danger

Contains: Styrene, Dibenzoyl peroxide, 1,1'-(p-tolylimino) dipropan-2-ol, Methacrylic acid

Hazard statements (CLP)

| | |
|---|---|
| **H226** | Flammable liquid and vapour |
| **H302** | Harmful if swallowed |
| **H315** | Causes skin irritation. |
| **H317** | May cause an allergic skin reaction. |
| **H319** | Causes serious eye irritation. |
| **H361D** | Suspected of damaging the unborn child. |
| **H372** | Causes damage to organs through prolonged or repeated exposure. |
| **H411** | Toxic to aquatic life with long lasting effects |

Precautionary statements (CLP)

| | |
|---|---|
| **P210** | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| **P273** | Avoid release to the environment. |
| **P280** | Wear protective gloves, protective clothing, eye protection, face protection. |
| **P391** | Collect spillage. |
| **P403+P235** | Store in a well-ventilated place. Keep cool. |
| **P501** | Dispose of contents to an approved waste disposal plant |

## 2.3. Other hazards

| | |
|---|---|
| **Other hazards** | Vapours can form explosive mixtures with air. Results of PBT and vPvB assessment : Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII. |

**Component**

| | |
|---|---|
| Styrene (100-42-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| ethylene dibenzoate (94-49-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Dibenzoyl peroxide (94-36-0) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## 3. Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Identification | x=Conc. % | Classification 1272/2008 (CLP) |
|---|---|---|
| **Styrene**<br>CAS 100-42-5<br>CE 202-851-5<br>INDEX 601-026-00-0<br>REACH-no 01-2119457861-32-xxxx | 1 ≤ x ≤ 12,5 | Flam. Liq. 3, H226<br>Acute Tox. 4 (Inhalation:dust,mist), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Repr. 2, H361d<br>STOT SE 3, H335<br>STOT RE 1, H372<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 |
| **ethylene dibenzoate**<br>CAS 94-49-5<br>CE 202-338-6<br>REACH-no 01-2120759933-41-xxxx | 0 ≤ x ≤ 1,5 | Aquatic Chronic 2, H411 |
| **Dibenzoyl peroxide**<br>CAS 94-36-0<br>CE 202-327-6<br>INDEX 617-008-00-0<br>REACH-no 01-2119511472-50-xxxx | 0,5 ≤ x < 2,5 | Org. Perox. B, H241<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10) |
| **1,1'-(p-tolylimino)dipropan-2-ol**<br>CAS 38668-48-3<br>CE 254-075-1 | 0 ≤ x ≤ 0,75 | Acute Tox. 2 (per via orale), H300<br>Eye Irrit. 2, H319<br>Aquatic Chronic 3, H412 |
| **Methacrylic acid**<br>CAS 79-41-4<br>CE 201-204-4<br>INDEX 607-088-00-5 | 0 ≤ x ≤ 0,1 | Acute Tox. 4 (per via orale), H302<br>Acute Tox. 3 (per via cutanea), H311<br>Acute Tox. 4 (per inalazione), H332<br>Skin Corr. 1A, H314 STOT SE 3, H335 |

**Specific concentration limits:**

| Substance name | Product identifier | Specific concentration limits |
|---|---|---|
| **Methacrylic acid** | CAS 79-41-4<br>CE 201-204-4<br>INDEX 607-088-00-5 | ( 1 ≤C < 100) STOT SE 3, H335 |

Full text of H- and EUH-statements: see section 16

## 4. First aid measures

### 4.1. Description of first aid measures

| | |
|---|---|
| Additional advice | First aider: Pay attention to self-protection!. Show this safety data sheet to the doctor in attendance. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance. |
| Inhalation | Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician. |
| Skin contact | Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician. |
| Eyes contact | Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician. |
| Ingestion | Rinse mouth thoroughly with water. Get medical advice/attention. |

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

| | |
|---|---|
| Inhalation | No adverse effects are expected. May be irritating |
| Skin contact | May cause an allergic skin reaction. Causes skin irritation |
| Eyes contact | Causes serious eye irritation |
| Ingestion | Harmful if swallowed |
| Chronic symptoms | Causes damage to organs through prolonged or repeated exposure. Suspected of damaging the unborn child. |

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

Treat symptomatically.

## 5. Firefighting measures

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA: carbon dioxide (CO2), powder, alcohol-resistant foam, water spray
UNSUITABLE EXTINGUISHING MEDIA: Strong water jet.

### 5.2. Special hazards arising from the substance or mixture

SPECIFIC HAZARDS: Flammable liquid and vapour. Heating will cause a rise in pressure with a risk of bursting. Vapours may form explosive mixture with air. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.
HAZARDOUS DECOMPOSITION PRODUCTS IN CASE OF FIRE: Burning produces noxious and toxic fumes. (COx).

### 5.3. Advice for firefighters

FIREFIGHTING INSTRUCTIONS: Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
PROTECTION DURING FIREFIGHTING: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
OTHER INFORMATION: Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.

#### 6.1.2. For emergency responders

Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

METHODS FOR CLEANING UP: Stop leak if safe to do so. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation. Cover the spilled liquid product with foam to slow down evaporation.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.

HYGIENE MEASURES: Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

STORAGE CONDITIONS: Storage of flammable liquids. Keep container tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage.
INCOMPATIBLE MATERIALS: Strong acids, strong oxidants. Strong bases.
STORAGE TEMPERATURE: < 25 °C
HEAT AND IGNITION SOURCES: Keep away from open flames, hot surfaces and sources of ignition. Do not smoke. Keep out of direct sunlight.
SPECIAL RULES ON PACKAGING: Containers which are opened should be properly resealed and kept upright to prevent leakage. Keep container tight closed.
PACKAGING MATERIALS: Keep only in the original container.

### 7.3. Specific end use(s)

Building and construction work.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

**Styrene (100-42-5)**

| | | |
|---|---|---|
| Austria | MAK (OEL TWA) | 85 mg/m³ |
| Austria | MAK (OEL TWA) [ppm] | 20 ppm |
| Austria | MAK (OEL STEL) | 340 mg/m³ |
| Austria | MAK (OEL STEL) [ppm] | 80 ppm |
| Belgium | OEL TWA | 108 mg/m³ |
| Belgium | OEL TWA [ppm] | 25 ppm |
| Belgium | OEL STEL | 346 mg/m³ |
| Belgium | OEL STEL [ppm] | 80 ppm |
| Bulgaria | OEL TWA | 85 mg/m³ |
| Bulgaria | OEL STEL | 215 mg/m³ |
| Croatia | GVI (OEL TWA) [1] | 430 mg/m³ |
| Croatia | GVI (OEL TWA) [2] | 100 ppm |
| Croatia | KGVI (OEL STEL) | 1080 mg/m³ |
| Croatia | KGVI (OEL STEL) [ppm] | 250 ppm |
| Czech Republic | PEL (OEL TWA) | 100 mg/m³ |
| Denmark | OEL Ceiling [ppm] | 25 ppm |
| Denmark | OEL C | 105 mg/m³ |

**Styrene (100-42-5)**

| | | |
|---|---|---|
| Estonia | OEL TWA | 90 mg/m³ |
| Estonia | OEL TWA [ppm] | 20 ppm |
| Estonia | OEL STEL | 200 mg/m³ |
| Estonia | OEL STEL [ppm] | 50 ppm |
| Finland | HTP (OEL TWA) [1] | 86 mg/m³ |
| Finland | HTP (OEL TWA) [2] | 20 ppm |
| Finland | HTP (OEL STEL) | 430 mg/m³ |
| Finland | HTP (OEL STEL) [ppm] | 100 ppm |
| France | VME (OEL TWA) | 100 mg/m³ (indicative limit) |
| France | VME (OEL TWA) [ppm] | 23,3 ppm (indicative limit) |
| France | VLE (OEL C/STEL) | 200 mg/m³ (indicative limit) |
| France | VLE (OEL C/STEL) [ppm] | 46,6 ppm (indicative limit) |
| Germany | Occupational exposure limit value (mg/m³) (TRGS900) | 86 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Germany | Occupational exposure limit value (ppm) (TRGS900) | 20 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Germany | Biological limit value | 600 mg/g creatinine Parameter: Mandelic acid plus Phenylglyoxylic acid - Medium: urine - Sampling time: end of shift 600 mg/g creatinine Parameter: Mandelic acid plus Phenylglyoxylic acid - Medium: urine - Sampling time: for long-term exposures: at the end of the shift after several shifts |
| Greece | OEL TWA | 425 mg/m³ |
| Greece | OEL TWA [ppm] | 100 ppm |
| Greece | OEL STEL | 1050 mg/m³ |
| Greece | OEL STEL [ppm] | 250 ppm |
| Hungary | AK (OEL TWA) | 86 mg/m³ |
| Hungary | CK (OEL STEL) | 50 mg/m³ |
| Ireland | OEL TWA [1] | 85 mg/m³ |
| Ireland | OEL TWA [2] | 20 ppm |
| Ireland | OEL STEL | 170 mg/m³ |
| Ireland | OEL STEL [ppm] | 40 ppm |

**Styrene (100-42-5)**

| | | |
|---|---|---|
| Latvia | OEL TWA | 10 mg/m³ |
| Lithuania | IPRV (OEL TWA) | 90 mg/m³ |
| Lithuania | IPRV (OEL TWA) [ppm] | 20 ppm 10 ppm (for planning of new facilities or replacing the old ones) |
| Lithuania | TPRV (OEL STEL) | 200 mg/m³ |
| Lithuania | TPRV (OEL STEL) [ppm] | 50 ppm |
| Poland | NDS (OEL TWA) | 50 mg/m³ |
| Poland | NDSCh (OEL STEL) | 100 mg/m³ |
| Portugal | OEL TWA [ppm] | 20 ppm |
| Portugal | OEL STEL [ppm] | 40 ppm |
| Romania | OEL TWA | 50 mg/m³ |
| Romania | OEL TWA [ppm] | 12 ppm |
| Romania | OEL STEL | 150 mg/m³ |
| Romania | OEL STEL [ppm] | 35 ppm |
| Slovacchia | NPHV (OEL TWA) [1] | 86 mg/m³ |
| Slovacchia | NPHV (OEL TWA) [2] | 20 ppm |
| Slovacchia | NPHV (OEL C) | 200 mg/m³ |
| Slovakia | OEL TWA | 86 mg/m³ |
| Slovakia | OEL TWA [ppm] | 20 ppm |
| Slovakia | OEL STEL | 172 mg/m³ |
| Slovakia | OEL STEL [ppm] | 40 ppm |
| Spagna | VLA-ED (OEL TWA) [1] | 86 mg/m³ (endocrine disruptor) |
| Spain | VLA-ED (OEL TWA) [2] | 20 ppm (endocrine disruptor) |
| Spain | VLA-EC (OEL STEL) | 172 mg/m³ |
| Spain | VLA-EC (OEL STEL) [ppm] | 40 ppm |
| Sweden | NGV (OEL TWA) | 43 mg/m³ |
| Sweden | NGV (OEL TWA) [ppm] | 10 ppm |
| Sweden | KTV (OEL STEL) | 86 mg/m³ |
| Sweden | KTV (OEL STEL) [ppm] | 20 ppm |
| United Kingdom | WEL TWA (OEL TWA) [1] | 430 mg/m³ |
| United Kingdom | WEL TWA (OEL TWA) [2] | 100 ppm |

## SAFETY DATA SHEET

According to Annex II to REACH - Regulation 2015/830



**EHE01** Dual component system in glass capsule for anchorage in construction materials, Vinilester-based resin

**Styrene (100-42-5)**

| | | |
|---|---|---|
| United Kingdom | WEL STEL (OEL STEL) | 1080 mg/m³ |
| United Kingdom | WEL STEL (OEL STEL) [ppm] | 250 ppm |
| Norway | Grenseverdi (OEL TWA) [1] | 105 mg/m³ |
| Norway | Grenseverdi (OEL TWA) [2] | 25 ppm |
| Norway | Korttidsverdi (OEL STEL) | 131,25 mg/m³ (value calculated) |
| Norway | Korttidsverdi (OEL STEL) [ppm] | 37,5 ppm (value calculated) |
| Switzerland | MAK (OEL TWA) [1] | 85 mg/m³ |
| Switzerland | MAK (OEL TWA) [2] | 20 ppm |
| Switzerland | KZGW (OEL STEL) | 170 mg/m³ |
| Switzerland | KZGW (OEL STEL) [ppm] | 40 ppm |
| Australia | OES TWA [1] | 213 mg/m³ |
| Australia | OES TWA [2] | 50 ppm |
| Australia | OES STEL | 426 mg/m³ |
| Australia | OES STEL [ppm] | 100 ppm |
| Canada (Quebec) | VECD (OEL STEL) | 426 mg/m³ |
| Canada (Quebec) | VECD (OEL STEL) [ppm] | 100 ppm |
| Canada (Quebec) | VEMP (OEL TWA) | 213 mg/m³ |
| Canada (Quebec) | VEMP (OEL TWA) [ppm] | 50 ppm |
| USA - ACGIH | ACGIH OEL TWA [ppm] | 10 ppm |
| USA - ACGIH | ACGIH OEL STEL [ppm] | 20 ppm |
| USA - IDLH | IDLH [ppm] | 700 ppm |
| USA - NIOSH | NIOSH REL (TWA) | 215 mg/m³ |
| USA - NIOSH | NIOSH REL TWA [ppm] | 50 ppm |
| USA - NIOSH | NIOSH REL (STEL) | 425 mg/m³ |
| USA - NIOSH | NIOSH REL STEL [ppm] | 100 ppm |
| USA - OSHA | OSHA PEL (TWA) [2] | 100 ppm |
| USA - OSHA | OSHA PEL C [ppm] | 200 ppm |

**Dibenzoyl peroxide (94-36-0)**

| | | |
|---|---|---|
| Austria | MAK (OEL TWA) | 5 mg/m³ (inhalable fraction) |
| Austria | MAK (OEL STEL) | 10 mg/m³ (inhalable fraction) |
| Belgium | OEL TWA | 5 mg/m³ |
| Croatia | GVI (OEL TWA) [1] | 5 mg/m³ |
| Czech Republic | PEL (OEL TWA) | 5 mg/m³ |
| Denmark | OEL TWA [1] | 5 mg/m³ |
| Estonia | OEL TWA | 5 mg/m³ |
| Finland | HTP (OEL TWA) [1] | 5 mg/m³ |
| Finland | HTP (OEL STEL) | 10 mg/m³ |
| France | VME (OEL TWA) | 5 mg/m³ |
| Germany | Occupational exposure limit value (mg/m³) (TRGS900) | 5 mg/m³ (inhalable fraction) |
| Greece | OEL TWA | 5 mg/m³ |
| Hungary | AK (OEL TWA) | 5 mg/m³ |
| Hungary | CK (OEL STEL) | 5 mg/m³ |
| Ireland | OEL TWA [1] | 5 mg/m³ |
| Ireland | OEL STEL | 15 mg/m³ (calculated) |
| Poland | NDS (OEL TWA) | 5 mg/m³ |
| Poland | NDSCh (OEL STEL) | 10 mg/m³ |
| Portugal | OEL TWA | 5 mg/m³ |
| Slovakia | NPHV (OEL TWA) [1] | 5 mg/m³ |
| Slovenia | OEL TWA | 5 mg/m³ (inhalable fraction) |
| Slovenia | OEL STEL | 5 mg/m³ (inhalable fraction) |
| Spain | VLA-ED (OEL TWA) [1] | 5 mg/m³ |
| United Kingdom | WEL TWA (OEL TWA) [1] | 5 mg/m³ |
| United Kingdom | WEL STEL (OEL STEL) | 15 mg/m³ (calculated) |
| Norway | Grenseverdi (OEL TWA) [1] | 5 mg/m³ |
| Norway | Korttidsverdi (OEL STEL) | 10 mg/m³ (value calculated) |
| Switzerland | MAK (OEL TWA) [1] | 5 mg/m³ (inhalable dust) |
| Switzerland | KZGW (OEL STEL) | 5 mg/m³ (inhalable dust) |
| Australia | OES TWA [1] | 5 mg/m³ |

| | | |
|---|---|---|
| **Dibenzoyl peroxide (94-36-0)** | | |
| Canada (Quebec) | VEMP (OEL TWA) | 5 mg/m³ |
| USA - ACGIH | ACGIH OEL TWA | 5 mg/m³ |
| USA - IDLH | IDLH | 1500 mg/m³ |
| USA - NIOSH | NIOSH REL (TWA) | 5 mg/m³ |
| USA - OSHA | OSHA PEL (TWA) [1] | 5 mg/m³ |
| **Methacrylic acid (79-41-4)** | | |
| Austria | MAK (OEL TWA) | 70 mg/m³ |
| Austria | MAK (OEL TWA) [ppm] | 20 ppm |
| Belgium | OEL TWA | 71 mg/m³ |
| Belgium | OEL TWA [ppm] | 20 ppm |
| Bulgaria | OEL TWA | 70 mg/m³ |
| Croatia | GVI (OEL TWA) [1] | 72 mg/m³ |
| Croatia | GVI (OEL TWA) [2] | 20 ppm |
| Croatia | KGVI (OEL STEL) | 143 mg/m³ |
| Croatia | KGVI (OEL STEL) [ppm] | 40 ppm |
| Denmark | OEL TWA [1] | 70 mg/m³ |
| Denmark | OEL TWA [2] | 20 ppm |
| Estonia | OEL TWA | 70 mg/m³ |
| Estonia | OEL TWA [ppm] | 20 ppm |
| Estonia | OEL STEL | 100 mg/m³ |
| Estonia | OEL STEL [ppm] | 30 ppm |
| Finland | HTP (OEL TWA) [1] | 71 mg/m³ |
| Finland | HTP (OEL TWA) [2] | 20 ppm |
| France | VME (OEL TWA) | 70 mg/m³ |
| France | VME (OEL TWA) [ppm] | 20 ppm |
| Germany | Occupational exposure limit value (mg/m³) (TRGS900) | 180 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Germany | Occupational exposure limit value (ppm) (TRGS900) | 50 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Greece | OEL TWA | 70 mg/m³ |

| | | |
|---|---|---|
| Greece | OEL TWA [ppm] | 20 ppm |
| Greece | OEL STEL | 140 mg/m³ |
| Greece | OEL STEL [ppm] | 40 ppm |
| Ireland | OEL TWA [1] | 70 mg/m³ |
| Ireland | OEL TWA [2] | 20 ppm |
| Ireland | OEL STEL | 140 mg/m³ |
| Ireland | OEL STEL [ppm] | 40 ppm |
| Latvia | OEL TWA | 10 mg/m³ |
| Lithuania | IPRV (OEL TWA) | 70 mg/m³ |
| Lithuania | IPRV (OEL TWA) [ppm] | 20 ppm |
| Lithuania | TPRV (OEL STEL) | 100 mg/m³ |
| Lithuania | TPRV (OEL STEL) [ppm] | 30 ppm |
| Portugal | OEL TWA [ppm] | 20 ppm |
| Romania | OEL TWA | 30 mg/m³ |
| Romania | OEL TWA [ppm] | 8,5 ppm |
| Romania | OEL STEL | 45 mg/m³ |
| Romania | OEL STEL [ppm] | 13 ppm |
| Slovenia | OEL TWA | 180 mg/m³ |
| Slovenia | OEL TWA [ppm] | 50 ppm |
| Slovenia | OEL STEL | 360 mg/m³ |
| Slovenia | OEL STEL [ppm] | 100 ppm |
| Spain | VLA-ED (OEL TWA) [1] | 72 mg/m³ |
| Spain | VLA-ED (OEL TWA) [2] | 20 ppm |
| Sweden | NGV (OEL TWA) | 70 mg/m³ |
| Sweden | NGV (OEL TWA) [ppm] | 20 ppm |
| Sweden | KTV (OEL STEL) | 100 mg/m³ |
| Sweden | KTV (OEL STEL) [ppm] | 30 ppm |
| United Kingdom | WEL TWA (OEL TWA) [1] | 72 mg/m³ |
| United Kingdom | WEL TWA (OEL TWA) [2] | 20 ppm |
| United Kingdom | WEL STEL (OEL STEL) | 143 mg/m³ |
| United Kingdom | WEL STEL (OEL STEL) [ppm] | 40 ppm |

| | | |
|---|---|---|
| Norway | Grenseverdi (OEL TWA) [1] | 70 mg/m³ |
| Norway | Grenseverdi (OEL TWA) [2] | 20 ppm |
| Norway | Korttidsverdi (OEL STEL) | 105 mg/m³ (value calculated) |
| Norway | Korttidsverdi (OEL STEL) [ppm] | 30 ppm (value calculated) |
| Switzerland | MAK (OEL TWA) [1] | 180 mg/m³ |
| Switzerland | MAK (OEL TWA) [2] | 50 ppm |
| Switzerland | KZGW (OEL STEL) | 360 mg/m³ |
| Switzerland | KZGW (OEL STEL) [ppm] | 100 ppm |
| Australia | OES TWA [1] | 70 mg/m³ |
| Australia | OES TWA [2] | 20 ppm |
| Canada (Quebec) | VEMP (OEL TWA) | 70 mg/m³ |
| Canada (Quebec) | VEMP (OEL TWA) [ppm] | 20 ppm |
| USA - ACGIH | ACGIH OEL TWA [ppm] | 20 ppm |
| USA - NIOSH | NIOSH REL (TWA) | 70 mg/m³ |
| USA - NIOSH | NIOSH REL TWA [ppm] | 20 ppm |
| Additional information | Recommended monitoring procedures :. Personal air monitoring. Room air monitoring | |

**8.2. Exposure controls**

Engineering measure(s):
Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Organisational measures to prevent/limit releases, dispersion and exposure. See Section 7 for information on safe handling. Take precautionary measures against static discharge. Ensure equipment is adequately earthed. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

Personal protective equipment:
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hand protection:
Wear chemically resistant gloves (tested to EN374) . Impervious gloves. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves. Breakthrough time : hours (>8). VITON gloves. Thickness of the glove material: 0,7 mm. Breakthrough time : hours (>2). Butyl rubber. Breakthrough time : hours (<1). Chloroprene. Nitrile rubber. Thickness 0,11 mm

Eye protection:
Use suitable eye protection (EN166): goggles

Body protection:
Wear suitable protective clothing. Long sleeved clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. full face mask (DIN EN 136). Half-face mask (DIN EN 140). Filter type: A (EN 14387). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)

Thermal hazard protection:
Not required for normal conditions of use. Use dedicated equipment.

Environmental exposure controls:
Do not allow to enter into surface water or drains. Comply with applicable Community environmental protection legislation. Avoid release to the environment.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | Liquid |
| Appearance | capsules |
| Colour | Colourless |
| Odour | Characteristic |
| Odour threshold | No data available |
| pH | No data available |
| Relative evaporation rate (butylacetate=1) | No data available |
| Melting / freezing point | No data available |
| Freezing point | No data available |
| Initial boiling point and boiling range | No data available |
| Flash point | 33 °C Resin |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Flammability | Not applicable,liquid |
| Vapour pressure | No data available |
| Vapour density | No data available |
| Relative density | No data available |

| | |
|---|---|
| Solubility | Water: Insoluble |
| Partition coefficient n-octanol/water | No data available |
| Kinematic viscosity | No data available |
| Dynamic viscosity | 390 - 490 mPa.s |
| Explosive properties | Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule. |
| Oxidising properties | Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties. |
| Explosive limits | No data available |
| Particle size | Not applicable |
| Particle size distribution | Not applicable |
| Particle shape | Not applicable |
| Particle aspect ratio | Not applicable |
| Particle aggregation state | Not applicable |
| Particle agglomeration state | Not applicable |
| Particle specific surface area | Not applicable |
| Particle dustiness | Not applicable |

| 9.2. Other information |
|---|
| **9.2.1. Information with regard to physical hazard classes** |
| No additional information available |
| **9.2.2. Other safety characteristics** |
| No additional information available |

## 10. Stability and reactivity

**10.1. Reactivity**

Flammable liquid and vapour. Reference to other sections: 10.4 & 10.5.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Vapours may form explosive mixture with air. heat : Polymerisation can occur.

**10.4. Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. See Section 7 for information on safe handling.

**10.5. Incompatible materials**

Strong oxidizing agents. Strong bases. Strong acids. See Section 7 for information on safe handling.

**10.6. Hazardous decomposition products**

Does not decompose when used for intended uses. Burning produces noxious and toxic fumes. (COx). Reference to other sections 5.2.

## 11. Toxicological information

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

| | |
|---|---|
| **ACUTE TOXICITY** | |
| **Harmful if swallowed** | |
| ATE CLP (oral) | 980,392 mg/kg bodyweight |
| **Styrene (100-42-5)** | |
| LD50/oral/rat | 1000 mg/kg |
| LD50/dermal/rat | > 2000 mg/kg |
| LC50/inhalation/4h/rat | 11,8 mg/l |
| **Dibenzoyl peroxide (94-36-0)** | |
| LD50/oral/rat | 7710 mg/kg |
| **ethylene dibenzoate (94-49-5)** | |
| LD50/oral/rat | > 2000 mg/kg |
| LD50/dermal/rat | > 2000 mg/kg |

| **1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)** | |
|---|---|
| LD50/dermal/rat | > 2000 mg/kg |
| **Acido metacrilico (79-41-4)** | |
| LD50/oral/rat | 1060 mg/kg |
| LD50/dermal/rabbit | 500 – 1000 mg/kg |
| LC50/inhalation/4h/rat | 7,1 mg/l/4h |

| | |
|---|---|
| Skin corrosion/irritation | Causes skin irritation.<br>pH: No data available |
| Serious eye damage/irritation | Causes serious eye irritation.<br>pH: No data available |
| Respiratory or skin sensitisation | May cause an allergic skin reaction. |
| Germ cell mutagenicity | Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity | Not classified (Based on available data, the classification criteria are not met) |
| Reproductive toxicity | Suspected of damaging the unborn child. |
| STOT-single exposure | Not classified (Based on available data, the classification criteria are not met) |
| STOT-repeated exposure | Causes damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | Not classified (Based on available data, the classification criteria are not met) |

| EHE 01 M8, EHE 01 M10, EHE 01 M12, EHE 01 M14, EHE 01 M16, EHE 01 M20, EHE 01 M22, EHE 01 M24, EHE 01 M30 | |
|---|---|
| Kinematic viscosity | No data available |

| | |
|---|---|
| Other adverse effects | Causes damage to organs through prolonged or repeated exposure. Suspected of damaging the unborn child. |
| Other information | Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4. |

**11.2. Information on other hazards**

| **11.2.1. Endocrine disrupting properties** | |
|---|---|
| Adverse health effects caused by endocrine disrupting properties | The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % |
| **11.2.2 Other information** | |
| Other adverse effects | Causes damage to organs through prolonged or repeated exposure,Suspected of damaging the unborn child. |
| Other information | Symptoms related to the physical, chemical and toxicological characteristics,For further information see section 4 |

## 12. Ecological information

### 12.1. Toxicity

| | |
|---|---|
| Environmental properties | Toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short–term (acute) | Not classified |
| Hazardous to the aquatic environment, long–term (chronic) | Toxic to aquatic life with long lasting effects. |

**Styrene (100-42-5)**

| | |
|---|---|
| LC50 - Fish [1] | 3,24 – 4,99 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| LC50 - Fish [2] | 19,03 – 33,53 mg/l (Exposure time: 96 h -Species: Lepomis macrochirus [static]) |
| LC50 - Other aquatic organisms [2] | 500 mg/l Batteri |
| EC50 - Crustacea [1] | 3,3 – 7,4 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 - Other aquatic organisms [1] | 1,4 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata) |
| EC50 - Other aquatic organisms [2] | 0,72 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata) |
| EC50 72h - Algae [1] | 1,4 mg/l (Species: Pseudokirchneriella subcapitata) |
| EC50 72h - Algae [2] | 0,46 – 4,3 mg/l (Species: Pseudokirchneriella subcapitata [static]) |
| EC50 96h - Algae [1] | 0,72 mg/l (Species: Pseudokirchneriella subcapitata) |
| EC50 96h - Algae [2] | 0,15 – 3,2 mg/l (Species: Pseudokirchneriella subcapitata [static]) |
| NOEC (acute) | 44 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida [soil dry weight]) |
| NOEC (additional information) | NOEC, Dafnia : 1,01 mg/l (21d) |

**Dibenzoyl peroxide (94-36-0)**

| | |
|---|---|
| LC50 - Fish [1] | 0,0602 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static]) |

**ethylene dibenzoate (94-49-5)**

| | |
|---|---|
| LC50 - Fish [1] | > 0,434 mg/l Brachydanio rerio (zebra-fish) |
| EC50 - Crustacea [1] | 1,4 mg/l |
| EC50 - Other aquatic organisms [1] | > 1280 mg/l Activated sludge |
| ErC50 algae | > 0,87 mg/l Pseudokirchneriella subcapitata (green algae) |
| NOEC chronic fish | 0,073 mg/l Brachydanio rerio (zebra-fish) |
| NOEC chronic algae | 0,045 mg/l Pseudokirchneriella subcapitata (green algae) |

**1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)**

| | |
|---|---|
| LC50 - Fish [1] | 17 mg/l (Exposure time: 96 h - Species: Danio rerio [static]) |

**Methacrylic acid (79-41-4)**

| | |
|---|---|
| LC50 - Fish [1] | 85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) |

| | |
|---|---|
| **12.2. Persistence and degradability** | |
| **EHE 01 M8, EHE 01 M10, EHE 01 M12, EHE 01 M14, EHE 01 M16, EHE 01 M20, EHE 01 M22, EHE 01 M24, EHE 01 M30** | |
| Persistence and degradability | No additional information available. |
| **Styrene (100-42-5)** | |
| Biodegradation | Readily biodegradable |
| **Dibenzoyl peroxide (94-36-0)** | |
| Persistence and degradability | Readily biodegradable |
| **ethylene dibenzoate (94-49-5)** | |
| Persistence and degradability | Readily biodegradable |
| **12.3. Bioaccumulative potential** | |
| **EHE 01 M8, EHE 01 M10, EHE 01 M12, EHE 01 M14, EHE 01 M16, EHE 01 M20, EHE 01 M22, EHE 01 M24, EHE 01 M30** | |
| Partition coefficient n-octanol/water | No data available |
| Bioaccumulative potential | No additional information available. |
| **Styrene (100-42-5)** | |
| BCF Fish 1 | 13,5 |
| Partition coefficient n-octanol/water | 2,95 |
| Bioaccumulative potential | Does not bioaccumulate. |
| **Dibenzoyl peroxide (94-36-0)** | |
| Partition coefficient n-octanol/water | 3,2 (at 22 °C (at pH 7.02) |
| Bioaccumulative potential | Low potential. |
| **ethylene dibenzoate (94-49-5)** | |
| Bioconcentration factor (BCF) | 2,74 |
| Partition coefficient n-octanol/water | 3,75 (at 30 °C (at pH 7.7) |
| Bioaccumulative potential | Low potential. |
| **1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)** | |
| Partition coefficient n-octanol/water | 2,1 (at 24 °C (at pH 7.3-7.5) |
| **Methacrylic acid (79-41-4)** | |
| Partition coefficient n-octanol/water | 0,93 (at 22 °C (at pH 2.2) |
| **12.4. Mobility in soil** | |
| **EHE 01 M8, EHE 01 M10, EHE 01 M12, EHE 01 M14, EHE 01 M16, EHE 01 M20, EHE 01 M22, EHE 01 M24, EHE 01 M30** | |
| Mobility in soil | No data available |
| Ecology - soil | No data available |
| **Styrene (100-42-5)** | |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 352 @ 20°C |

**SAFETY DATA SHEET** According to Annex II to REACH - Regulation 2015/830



**EHE01** Dual component system in glass capsule for anchorage in construction materials, Vinilester-based resin

| | |
|---|---|
| **12.5. Results of PBT and vPvB assessment** | |
| **EHE 01 M8, EHE 01 M10, EHE 01 M12, EHE 01 M14, EHE 01 M16, EHE 01 M20, EHE 01 M22, EHE 01 M24, EHE 01 M30** | |
| Results of PBT assessment | Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII |
| **Component** | |
| **Styrene (100-42-5)** | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| **ethylene dibenzoate (94-49-5)** | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| **Dibenzoyl peroxide (94-36-0)** | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| **12.6. Endocrine disrupting properties** | |
| Adverse effects on the environment caused by endocrine disrupting properties | The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % |
| **12.7. Other adverse effects** | |
| Other adverse effects | No data available |

## 13. Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations:
Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations. Packaging contaminated by the product : Do not pierce or burn, even after use. Never use pressure to empty container.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC):
This material and its container must be disposed of as hazardous waste Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities The following Waste Codes are only suggestions: 150110* - packaging containing residues of or contaminated by dangerous substances

## 14. Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number or ID number

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| | | 1866 | | |

### 14.2. UN proper shipping name

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| | | RESIN SOLUTION (Styrene) | | |

*Transport document description*

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| UN 1866 RESIN SOLUTION (Styrene), 3, III, (D/E) | UN 1866 RESIN SOLUTION (Styrene), 3, III | UN 1866 Resin solution (Styrene), 3, III | UN 1866 RESIN SOLUTION (Styrene), 3, III | UN 1866 RESIN SOLUTION (Styrene), 3, III |

### 14.3. Transport hazard class(es)

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| | | 3 | | |


### 14.4. Packing group

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| | | III | | |

### 14.5. Environmental hazards

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| Dangerous for the environment: Yes | Dangerous for the environment: Yes<br>Marine pollutant: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes |

Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg). The environmentally hazardous substance mark is therefore not required, as stated in the ADR regulation, section 5.2.1.8.1.

Not restricted for transport by rail, overland and sea according ADR/RID chapter 2.2.3.15 and IMDG 2.3.2.5

**14.6. Special precautions for user**

| | |
|---|---|
| Special precautions for user | No data available |
| **- Overland transport** | |
| Transport regulations (ADR) | No good of class 3 according to ADR/RID chapter 2.2.3.1.5 |
| **- Transport by sea** | |
| Transport regulations (IMDG) | If shipped by vessel in quantities LESS than 30L, IMDG 2.3.2.5 exception applies: Not regulated as a hazardous material. State on shipping documents: “Transport in accordance with 2.3.2.5 of the IMDG code.” |
| **- Air transport** | |
| PCA Excepted quantities (IATA): | E1 |
| PCA Limited quantities (IATA): | Y344 |
| PCA limited quantity max net quantity (IATA): | 10L |
| PCA packing instructions (IATA): | 355 |
| PCA max net quantity (IATA): | 60L |
| CAO packing instructions (IATA): | 366 |
| CAO max net quantity (IATA): | 220L |
| Special provisions (IATA): | A3 |
| ERG code (IATA): | 3L |
| **- Inland waterway transport** | |
| Transport regulations (ADN) | Not applicable (cf. 2.2.3.1.5) |
| **- Inland waterway transport** | |
| Transport regulations (ADN) | No good of class 3 according to ADR/RID chapter 2.2.3.1.5 |

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

| | |
|---|---|
| Code: IBC | No data available. |



## 15. Regulatory information

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

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

| | |
|---|---|
| 3. 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 | Styrene - 1,1'-(p-tolylimino)dipropan-2-ol |
| 3(a) 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: 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 | Styrene |
| 3(b) 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: 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 | Styrene - 1,1'-(p-tolylimino)dipropan-2-ol |
| 3(c) 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: Hazard class 4.1 | Styrene - 1,1'-(p-tolylimino)dipropan-2-ol |
| 40. 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 Regulation (EC) No 1272/2008 or not. | Styrene |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

**France**

| No ICPE | Installations classées - Désignation de la rubrique | Code Régime | Rayon |
|---|---|---|---|
| 4331.text | Liquides inflammables de catégorie 2 ou catégorie 3 à l'exclusion de la rubrique 4330. La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant : | | |
| 4331.1 | 1. Supérieure ou égale à 1000 t<br>Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t.<br>Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t. | A | 2 |
| 4331.2 | 2. Supérieure ou égale à 100 t mais inférieure à 1000 t<br>Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t.<br>Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t. | E | |
| 4331.3 | 3. Supérieure ou égale à 50 t mais inférieure à 100 t<br>Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t.<br>Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t. | DC | |
| 4511.text | Dangereux pour l'environnement aquatique de catégorie chronique 2. | | |
| 4511.1 | La quantité totale susceptible d'être présente dans l'installation étant :<br>1. Supérieure ou égale à 200 t<br>Quantité seuil bas au sens de l'article R. 511-10 : 200 t.<br>Quantité seuil haut au sens de l'article R. 511-10 : 500 t. | A | 1 |
| 4511.2 | La quantité totale susceptible d'être présente dans l'installation étant :<br>2. Supérieure ou égale à 100 t mais inférieure à 200 t<br>Quantité seuil bas au sens de l'article R. 511-10 : 200 t.<br>Quantité seuil haut au sens de l'article R. 511-10 : 500 t. | DC | |

## SAFETY DATA SHEET

According to Annex II to REACH - Regulation 2015/830



**EHE01** Dual component system in glass capsule for anchorage in construction materials, Vinilester-based resin

| | |
|---|---|
| **Germany** | |
| Reference to AwSV | Water hazard class (WGK) 2, Significantly hazardous to water (Classification according to AwSV, Annex 1) |
| Risk classification according to VbF | A II - Liquids with a flashpoint between 21°C and 55°C |
| 12th Ordinance Implementing the Federal | Listed in the 12. BImSchV (Annex I) under: 1.2.5.2 |
| Immission Control Act - 12.BImSchV | Quantity threshold for operational area under § 1 para. 1<br>- Sentence 1: 50000 kg<br>- Sentence 2: 200000 kg |
| **Netherlands** | |
| SZW-lijst van kankerverwekkende stoffen | None of the components are listed |
| SZW-lijst van mutagene stoffen | None of the components are listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding | None of the components are listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid | None of the components are listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling | Styrene is listed |
| **Denmark** | |
| Class for fire hazard | Class II-1 |
| Store unit | 5 liter |
| Classification remarks | R10 <H226;H302;H315;H317;H319;H361d;H372;H411>; Emergency management guidelines for the storage of flammable liquids must be followed |
| Recommendations Danish Regulation | Pregnant/breastfeeding women working with the product must not be in direct contact with the product |

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out

Styrene
Dibenzoyl peroxide

## 16. Other information

Indication of changes:

| | | | |
|---|---|---|---|
| 2.1 | Classification | Modified | |
| 2.2 | Label elements | Modified | |
| 3 | Mixtures | Modified | |
| 12.1 | Environmental properties | Modified | |
| 14 | Transport information | Modified | |
| 15.1 | REACH Annex XVII | Modified | |
| 15.1 | National regulations | Modified | |
| 16 | Training advice | Added | |

Abbreviations and acronyms:

ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
EC50 = Median Effective Concentration
LC50 = Median lethal concentration
LD50 = Median lethal dose
Not applicable
TLV = Threshold limits
TWA = time weighted average
STEL = Short term exposure limit
persistent, bioaccumulating and toxic (PBT).
vPvB = very persistent and very bioaccumulating
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

| | |
|---|---|
| Sources of key data used to compile the datasheet | ECHA (European Chemicals Agency). Additional information : Manufacturer/Supplier |
| Training advice | Manipulations are to be done only by qualified and authorised persons. Training staff on good practice. |
| Other information | Assessment/classification CLP. Article No.: 9. Calculation method. |

| **Full text of H- and EUH-statements:** | |
|---|---|
| Acute Tox. 2 (Oral) | Acute toxicity Category 2 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment - Aquatic Acute 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment - chronic hazard category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - chronic hazard category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - chronic hazard category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Org. Perox. B | Organic Peroxides, Type B |
| Repr. 2 | Reproductive toxicity, Hazard Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, hazard category 1 |
| STOT RE 1 | Specific target organ toxicity — Repeated exposure, Category 1 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H226 | Flammable liquid and vapour. |
| H241 | Heating may cause a fire or explosion. |
| H300 | Fatal if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H361d | Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

## SAFETY DATA SHEET

According to Annex II to REACH - Regulation 2015/830



**EHE01** Dual component system in glass capsule for anchorage in construction materials, Vinilester-based resin

**According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830**
**Classification according to Regulation (EC) No. 1272/2008 [CLP]**
**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

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