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

1.1. Product identifier

Product form : Mixture
Trade name/designation : CAQU M8, CAQU M10, CAQU M12, CAQU M16,
CAQU M20, CAQU M24, CAQU 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

Use of the substance/mixture : Building and construction work

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

INDEX Fixing Systems
P.I. La Portalada II
c/ Segador 13, 26006
Logroño (La Rioja) SPAIN
Telephone: +34 941272131
Fax: +34 941272132
E-mail: info@indexfix.com

1.4. Emergency telephone number

Emergency number : +34 941272131 (8h - 17h)

SECTION 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 statements : see section 16

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02




GHS07



GHS08



GHS09

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| | |
|--------------------------------|---|
| Signal word | : Danger |
| Hazardous ingredients | : Styrene; 1,1'-(p-tolylimino)dipropan-2-ol; Dibenzoyl peroxide |
| 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 clothing, protective gloves, 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 : PBT/vPvB data : This information is not available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Substance name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|----------------------------------|--|------------|--|
| Styrene | (CAS-No.) 100-42-5 (EC-No.) 202-851-5 (EC Index) 601-026-00-0 (REACH-no) 01-2119457861-32 | 1 – 12,5 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT SE 3, H335 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 |
| ethylene dibenzoate | (CAS-No.) 94-49-5 (EC-No.) 202-338-6 (REACH-no) 01-2120759933-41 | 0 – 1,5 | Aquatic Chronic 2, H411 |
| Dibenzoyl peroxide | (CAS-No.) 94-36-0 (EC-No.) 202-327-6 (EC Index) 617-008-00-0 (REACH-no) 01-2119511472-50-xxxx | 0,5 - <2,5 | Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) |
| 1,1'-(p-tolylimino)dipropan-2-ol | (CAS-No.) 38668-48-3 (EC-No.) 254-075-1 | 0 - 0,75 | Acute Tox. 2 (Oral), H300 Eye Dam. 1, H318 Aquatic Chronic 3, H412 |

Full text of H-statements: see section 16



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SECTION 4: First aid measures

4.1. Description of first aid measures

- Additional advice : First aider: Pay attention to self-protection. See also section 8. Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance.
- Inhalation : Provide fresh air. Put victim at rest, cover with a blanket and keep warm. In case of doubt or persistent symptoms, consult always a physician.
- Skin contact : Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water . Call a physician if irritation develops or persists.
- Eyes contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In case of doubt or persistent symptoms, consult always a physician.
- Ingestion : 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 : Causes skin irritation. May cause an allergic skin reaction.
- 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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder.
- Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

- Specific hazards : Flammable liquid and vapour. Do not allow run-off from fire-fighting to enter drains or water courses.
- Hazardous decomposition products in case of fire : Burning produces noxious and toxic fumes. (COx).

5.3. Advice for firefighters

- Firefighting instructions : Special protective equipment for firefighters. Use water spray or fog for cooling exposed containers. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- For non-emergency personnel : Evacuate personnel to a safe area. Use personal protective equipment as required. Reference to other sections: 8. Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapours/dust. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Take precautionary measures against static discharges.

6.1.2. For emergency responders

- 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.



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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Take up mechanically and collect in suitable container for disposal. Collect in closed and suitable containers for disposal. Dam up. Dispose of contaminated materials in accordance with current regulations.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only in well ventilated areas. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8 . Avoid contact with skin, eyes and clothing. Do not breathe vapour/aerosol. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Handle and open container with care. After use replace the closing cap immediately. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Do not allow to enter into surface water or drains. Take any precaution to avoid mixing with combustibles... See also section 10 .

Hygiene measures : Keep good industrial hygiene. Wash hands and face before breaks and immediately after handling of the product. Take off contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : 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.

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.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Styrene (100-42-5) | | |
|--------------------|--|------------------------|
| Austria | MAK (mg/m ³) | 85 mg/m ³ |
| Austria | MAK (ppm) | 20 ppm |
| Austria | MAK Short time value (mg/m ³) | 340 mg/m ³ |
| Austria | MAK Short time value (ppm) | 80 ppm |
| Belgium | Limit value (mg/m ³) | 108 mg/m ³ |
| Belgium | Limit value (ppm) | 25 ppm |
| Belgium | Short time value (mg/m ³) | 346 mg/m ³ |
| Belgium | Short time value | 80 ppm |
| Bulgaria | OEL TWA (mg/m ³) | 85 mg/m ³ |
| Bulgaria | OEL STEL (mg/m ³) | 215 mg/m ³ |
| Croatia | GVI (granična vrijednost izloženosti) (mg/m ³) | 430 mg/m ³ |
| Croatia | GVI (granična vrijednost izloženosti) (ppm) | 100 ppm |
| Croatia | KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³) | 1080 mg/m ³ |
| Croatia | KGVI (kratkotrajna granična vrijednost izloženosti) (ppm) | 250 ppm |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 100 mg/m ³ |
| Denmark | Grænseværdie (ceiling) (ppm) | 25 ppm |



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| Styrene (100-42-5) | | |
|--------------------|---|---|
| Denmark | Grænseværdie (ceiling) (mg/m ³) | 105 mg/m ³ |
| Estonia | OEL TWA (mg/m ³) | 90 mg/m ³ |
| Estonia | OEL TWA (ppm) | 20 ppm |
| Estonia | OEL STEL (mg/m ³) | 200 mg/m ³ |
| Estonia | OEL STEL (ppm) | 50 ppm |
| Finland | HTP-arvo (8h) (mg/m ³) | 86 mg/m ³ |
| Finland | HTP-arvo (8h) (ppm) | 20 ppm |
| Finland | HTP-arvo (15 min) | 430 mg/m ³ |
| Finland | HTP-arvo (15 min) (ppm) | 100 ppm |
| France | VME (mg/m ³) | 100 mg/m ³ (indicative limit) |
| France | VME (ppm) | 23,3 ppm (indicative limit) |
| France | VLE (mg/m ³) | 46,6 mg/m ³ (indicative limit) |
| France | VLE (ppm) | 200 ppm (indicative limit) |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 86 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Germany | TRGS 900 Occupational exposure limit value (ppm) | 20 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Germany | TRGS 903 Biological limit value | 600 mg/g Parameter: Mandelic acid plus Phenylglyoxylic acid - Medium: urine - Sampling time: end of shift (measured as mg/g Creatinine) 600 mg/g Parameter: Mandelic acid plus Phenylglyoxylic acid - Medium: urine - Sampling time: end of several shifts (measured as mg/g Creatinine) |
| Greece | OEL TWA (mg/m ³) | 425 mg/m ³ |
| Greece | OEL TWA (ppm) | 100 ppm |
| Greece | OEL STEL (mg/m ³) | 1050 mg/m ³ |
| Greece | OEL STEL (ppm) | 250 ppm |
| Hungary | AK-érték | 50 mg/m ³ |
| Hungary | CK-érték | 50 mg/m ³ |
| Ireland | OEL (8 hours ref) (mg/m ³) | 85 mg/m ³ |
| Ireland | OEL (8 hours ref) (ppm) | 20 ppm |
| Ireland | OEL (15 min ref) (mg/m ³) | 170 mg/m ³ |
| Ireland | OEL (15 min ref) (ppm) | 40 ppm |
| Latvia | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Lithuania | IPRV (mg/m ³) | 90 mg/m ³ |
| Lithuania | IPRV (ppm) | 20 ppm 10 ppm (for planning of new facilities or replacing the old ones) |
| Lithuania | TPRV (mg/m ³) | 200 mg/m ³ |
| Lithuania | TPRV (ppm) | 50 ppm |
| Poland | NDS (mg/m ³) | 50 mg/m ³ |
| Poland | NDSch (mg/m ³) | 100 mg/m ³ |
| Portugal | OEL TWA (ppm) | 20 ppm |



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| Styrene (100-42-5) | | |
|---------------------------|---|---|
| Portugal | OEL STEL (ppm) | 40 ppm |
| Romania | OEL TWA (mg/m ³) | 50 mg/m ³ |
| Romania | OEL TWA (ppm) | 12 ppm |
| Romania | OEL STEL (mg/m ³) | 150 mg/m ³ |
| Romania | OEL STEL (ppm) | 35 ppm |
| Slovakia | NPHV (priemerná) (mg/m ³) | 86 mg/m ³ |
| Slovakia | NPHV (priemerná) (ppm) | 20 ppm |
| Slovakia | NPHV (Hraničná) (mg/m ³) | 200 mg/m ³ |
| Slovenia | OEL TWA (mg/m ³) | 86 mg/m ³ |
| Slovenia | OEL TWA (ppm) | 20 ppm |
| Slovenia | OEL STEL (mg/m ³) | 344 mg/m ³ |
| Slovenia | OEL STEL (ppm) | 80 ppm |
| Spain | VLA-ED (mg/m ³) | 86 mg/m ³ (endocrine disruptor) |
| Spain | VLA-ED (ppm) | 20 ppm (endocrine disruptor) |
| Spain | VLA-EC (mg/m ³) | 172 mg/m ³ |
| Spain | VLA-EC (ppm) | 40 ppm |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 43 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (ppm) | 10 ppm |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 86 mg/m ³ |
| Sweden | kortidsvärde (KTV) (ppm) | 20 ppm |
| United Kingdom | WEL TWA (mg/m ³) | 430 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 100 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 1080 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 250 ppm |
| Norway | Grenseverdier (AN) (mg/m ³) | 105 mg/m ³ |
| Norway | Grenseverdier (AN) (ppm) | 25 ppm |
| Norway | Grenseverdier (Kortidsverdi) (mg/m ³) | 131,25 mg/m ³ (value calculated) |
| Norway | Grenseverdier (Kortidsverdi) (ppm) | 37,5 ppm (value calculated) |
| Switzerland | MAK (mg/m ³) | 85 mg/m ³ |
| Switzerland | MAK (ppm) | 20 ppm |
| Switzerland | KZGW (mg/m ³) | 170 mg/m ³ |
| Switzerland | KZGW (ppm) | 40 ppm |
| Australia | TWA (mg/m ³) | 213 mg/m ³ |
| Australia | TWA (ppm) | 50 ppm |
| Australia | STEL (mg/m ³) | 426 mg/m ³ |
| Australia | STEL (ppm) | 100 ppm |
| Canada (Quebec) | VECD (mg/m ³) | 426 mg/m ³ |
| Canada (Quebec) | VECD (ppm) | 100 ppm |
| Canada (Quebec) | VEMP (mg/m ³) | 213 mg/m ³ |
| Canada (Quebec) | VEMP (ppm) | 50 ppm |
| USA - ACGIH | ACGIH TWA (ppm) | 20 ppm |
| USA - ACGIH | ACGIH STEL (ppm) | 40 ppm |
| USA - IDLH | US IDLH (ppm) | 700 ppm |
| USA - NIOSH | NIOSH REL (TWA) (mg/m ³) | 215 mg/m ³ |



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| Styrene (100-42-5) | | |
|-------------------------------------|---|---|
| USA - NIOSH | NIOSH REL (TWA) (ppm) | 50 ppm |
| USA - NIOSH | NIOSH REL (STEL) (mg/m ³) | 425 mg/m ³ |
| USA - NIOSH | NIOSH REL (STEL) (ppm) | 100 ppm |
| USA - OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |
| USA - OSHA | OSHA PEL (Ceiling) (ppm) | 200 ppm |
| Dibenzoyl peroxide (94-36-0) | | |
| Austria | MAK (mg/m ³) | 5 mg/m ³ (inhalable fraction) |
| Austria | MAK Short time value (mg/m ³) | 10 mg/m ³ (inhalable fraction) |
| Belgium | Limit value (mg/m ³) | 5 mg/m ³ |
| Croatia | GVI (granična vrijednost izloženosti) (mg/m ³) | 5 mg/m ³ |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 5 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 5 mg/m ³ |
| Estonia | OEL TWA (mg/m ³) | 5 mg/m ³ |
| Finland | HTP-arvo (8h) (mg/m ³) | 5 mg/m ³ |
| Finland | HTP-arvo (15 min) | 10 mg/m ³ |
| France | VME (mg/m ³) | 5 mg/m ³ |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 5 mg/m ³ (inhalable fraction) |
| Greece | OEL TWA (mg/m ³) | 5 mg/m ³ |
| Hungary | AK-érték | 5 mg/m ³ |
| Hungary | CK-érték | 5 mg/m ³ |
| Ireland | OEL (8 hours ref) (mg/m ³) | 5 mg/m ³ |
| Ireland | OEL (15 min ref) (mg/m ³) | 15 mg/m ³ (calculated) |
| Poland | NDS (mg/m ³) | 5 mg/m ³ |
| Poland | NDSch (mg/m ³) | 10 mg/m ³ |
| Portugal | OEL TWA (mg/m ³) | 5 mg/m ³ |
| Slovakia | NPHV (priemerná) (mg/m ³) | 5 mg/m ³ |
| Slovenia | OEL TWA (mg/m ³) | 5 mg/m ³ (inhalable fraction) |
| Slovenia | OEL STEL (mg/m ³) | 5 mg/m ³ (inhalable fraction) |
| Spain | VLA-ED (mg/m ³) | 5 mg/m ³ |
| United Kingdom | WEL TWA (mg/m ³) | 5 mg/m ³ |
| United Kingdom | WEL STEL (mg/m ³) | 15 mg/m ³ (calculated) |
| Norway | Grænseverdier (AN) (mg/m ³) | 5 mg/m ³ |
| Norway | Grænseverdier (Korttidsverdi) (mg/m ³) | 10 mg/m ³ (value calculated) |
| Switzerland | MAK (mg/m ³) | 5 mg/m ³ (inhalable dust) |
| Switzerland | KZGW (mg/m ³) | 5 mg/m ³ (inhalable dust) |
| Australia | TWA (mg/m ³) | 5 mg/m ³ |
| Canada (Quebec) | VEMP (mg/m ³) | 5 mg/m ³ |
| USA - ACGIH | ACGIH TWA (mg/m ³) | 5 mg/m ³ |
| USA - IDLH | US IDLH (mg/m ³) | 1500 mg/m ³ |
| USA - NIOSH | NIOSH REL (TWA) (mg/m ³) | 5 mg/m ³ |
| USA - OSHA | OSHA PEL (TWA) (mg/m ³) | 5 mg/m ³ |

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| Additional information | : Concentration measurement in air. Personal monitoring |
| 8.2. Exposure controls | |
| Engineering measure(s) | : Use only in area provided with appropriate exhaust ventilation. Take precautionary measures against static discharge. 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 also section 7. |
| 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 | : Chemical goggles or safety glasses (EN 166) |
| Body protection | : Wear suitable protective clothing. Long sleeved protective clothing |
| Respiratory protection | : In case of insufficient ventilation, wear suitable respiratory equipment. Full face mask (EN 136). Half-face mask (DIN EN 140). Filter type: A (EN 141). |
| Thermal hazard protection | : Not required for normal conditions of use. |
| Environmental exposure controls | : Do not allow to enter into surface water or drains. Comply with applicable Community environmental protection legislation. |

SECTION 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 | : 31 °C Resin |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : No data available |
| Vapour density | : No data available |
| Relative density | : No data available |
| Solubility | : No data available. Water: Insoluble |
| Partition coefficient n-octanol/water | : No data available |
| Kinematic viscosity | : No data available |



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| | |
|----------------------|---|
| Dynamic viscosity | : 420 - 520 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 |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

heat : Polymerisation can occur.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. See also section 7. Handling and storage.

10.5. Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids. See also section 7. Handling and storage.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses. Burning produces noxious and toxic fumes. (COx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Causes skin irritation. pH: No data available |
| Serious eye damage/irritation | : Causes serious eye irritation. 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.) |



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Other information : Symptoms related to the physical, chemical and toxicological characteristics.
Reference to other sections: 4.2.

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : Very 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]) |
| EC50 Daphnia 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) |
| 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 Bacteria |
| EC50 other aquatic organisms 2 | 0,72 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata) |
| NOEC (acute) | 44 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida [soil dry weight]) |
| NOEC (additional information) | NOEC, Daphnia : 1,01 mg/l (21d) |
| ethylene dibenzoate (94-49-5) | |
| LC50 fish 1 | > 0,434 mg/l Brachydanio rerio (zebra-fish) |
| EC50 Daphnia 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 (acute) | < |
| NOEC chronic fish | 0,073 mg/l Brachydanio rerio (zebra-fish) |
| NOEC chronic algae | 0,045 mg/l Pseudokirchneriella subcapitata (green algae) |

12.2. Persistence and degradability

| CAQU M8, CAQU M10, CAQU M12, CAQU M16, CAQU M20, CAQU M24, CAQU M30 | |
|--|-----------------------|
| Persistence and degradability | No data available. |
| Styrene (100-42-5) | |
| Biodegradation | Readily biodegradable |

12.3. Bioaccumulative potential


| CAQU M8, CAQU M10, CAQU M12, CAQU M16, CAQU M20, CAQU M24, CAQU M30 | |
|--|-------------------------|
| Partition coefficient n-octanol/water | No data available |
| Bioaccumulative potential | No data available. |
| Styrene (100-42-5) | |
| BCF fish 1 | 13,5 |
| Partition coefficient n-octanol/water | 2,95 |
| Bioaccumulative potential | Does not bioaccumulate. |

12.4. Mobility in soil

| CAQU M8, CAQU M10, CAQU M12, CAQU M16, CAQU M20, CAQU M24, CAQU M30 | |
|--|--------------------|
| Mobility in soil | No data available |
| Ecology - soil | No data available. |
| Styrene (100-42-5) | |
| Log Koc | 352 (20°C) |

12.5. Results of PBT and vPvB assessment

| CAQU M8, CAQU M10, CAQU M12, CAQU M16, CAQU M20, CAQU M24, CAQU M30 | |
|--|-------------------|
| Results of PBT assessment | No data available |

| | | |
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12.6. Other adverse effects

Additional information : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Handle with care. Safe handling: see section 7. Handling and storage. Do not allow to enter into surface water or drains. Dispose of contaminated materials in accordance with current regulations. Refer to manufacturer/supplier for information on recovery/recycling. Collect and dispose of waste product at an authorised disposal facility.

Additional information : In accordance with local and national regulations.

Further ecological information : Should not be released into the environment.


European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : 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

SECTION 14: Transport information

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


| ADR | IMDG | IATA | ADN | RID |
|---|---|---|-------------------------------------|-------------------------------------|
| 14.1. UN number | | | | |
| Not applicable | Not applicable | 1866 | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | | |
| RESIN SOLUTION (Styrene) | RESIN SOLUTION (Styrene) | Resin solution (Styrene) | RESIN SOLUTION (Styrene) | RESIN SOLUTION (Styrene) |
| Transport document description | | | | |
| | | UN 1866 Resin solution (Styrene), 3, III | | |
| 14.3. Transport hazard class(es) | | | | |
| 3 | 3 | 3 | 3 | 3 |
| Not applicable | Not applicable |  | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | III | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment : Yes | Dangerous for the environment : Yes 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) | | | | |
| No supplementary information available | | | | |

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

| | | |
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- 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)

- Rail transport

Transport regulations (RID) : 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.

SECTION 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

| | | |
|--|--|-----------------------------|
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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 Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. 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 Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. 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 Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t. | DC | |
| 4510.text | Dangereux pour l'environnement aquatique de catégorie aiguë 1 ou chronique 1. | | |
| 4510.1 | La quantité totale susceptible d'être présente dans l'installation étant : 1. Supérieure ou égale à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 100 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t. | A | 1 |
| 4510.2 | La quantité totale susceptible d'être présente dans l'installation étant : 2. Supérieure ou égale à 20 t mais inférieure à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 100 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t. | DC | |

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 Immission Control Act - 12.BImSchV | : Listed in the 12. BImSchV (Annex I) under: 1.2.5.2 Quantity threshold for operational area under § 1 para. 1 - Sentence 1: 50000 kg - 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 |

| | | |
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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

SECTION 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 |



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| | |
|---------------|--|
| 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. |

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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