

Safety Data Sheet

according to UK REACH Regulation

KEM HR (A)

Revision date: 16.03.2023

Page 1 of 16

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

KEM HR (A)

UFI: RNPV-TOF0-F007-6R27

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

Adhesive mortar for fastening elements A-component (resin), only professional use.

Uses advised against

no restriction

1.3. Details of the supplier of the safety data sheet

Company name: FRIULSIDER S.p.A.

Street: Via Trieste 1

Place: I-33048 San Giovanni al Natisone, Udine

Telephone: +(39) 0432 747911

Internet: www.friulsider.com

Responsible Department: environmental@friulsider.com; info@friulsider.com

1.4. Emergency telephone**number:** Company +39 0432 747911 Monday-Friday 8:30 am - 5:30 pm**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Skin Sens. 1; H317

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

Tetramethylene dimethacrylate;

Methacrylic acid, monoester with propane-1,2-diol;

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl]
(4-methylphenyl)amino]**Signal word:** Warning**Pictograms:****Hazard statements**

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

Safety Data Sheet

according to UK REACH Regulation

KEM HR (A)

Revision date: 16.03.2023

Page 2 of 16

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

| CAS No | Chemical name | Quantity |
|------------|---|------------------|
| | EC No | Index No |
| | REACH No | |
| | Classification (GB CLP Regulation) | |
| 2082-81-7 | Tetramethylene dimethacrylate | 5 - < 15 % |
| | 218-218-1 | 01-2119967415-30 |
| | Skin Sens. 1B; H317 | |
| 25013-15-4 | Vinyltoluene | 1 - < 6 % |
| | 246-562-2 | 01-2119622074-50 |
| | Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Aquatic Acute 1, Aquatic Chronic 2; H226 H332 H315 H319 H400 H411 | |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol | < 2,5 % |
| | 248-666-3 | 01-2119490226-37 |
| | Eye Irrit. 2, Skin Sens. 1; H319 H317 | |
| 6846-50-0 | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate | < 0,5 % |
| | 229-934-9 | 01-2119451093-47 |
| | Repr. 2, Aquatic Chronic 3; H361d H412 | |
| - | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino] | < 0,5 % |
| | 911-490-9 | 01-2119979579-10 |
| | Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H302 H315 H318 H317 H412 | |
| 38668-48-3 | 1,1'-(p-Tolylimino)dipropyl-2-ol | < 0,5 % |
| | 254-075-1 | 01-2119980937-17 |
| | Acute Tox. 2, Eye Irrit. 2, Aquatic Chronic 3; H300 H319 H412 | |
| 130-15-4 | 1,4-naphthoquinone | < 0,05 % |
| | 204-977-6 | 01-2120760462-57 |
| | Acute Tox. 2, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H330 H301 H314 H318 H317 H335 H400 H410 | |

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

Safety Data Sheet

according to UK REACH Regulation

KEM HR (A)

Revision date: 16.03.2023

Page 3 of 16

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|-----------|---|------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 2082-81-7 | 218-218-1 | Tetramethylene dimethacrylate | 5 - < 15 % |
| | | dermal: LD50 = > 3000 mg/kg; oral: LD50 = 10066 mg/kg | |
| 25013-15-4 | 246-562-2 | Vinyltoluene | 1 - < 6 % |
| | | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 4585 mg/kg | |
| 27813-02-1 | 248-666-3 | Methacrylic acid, monoester with propane-1,2-diol | < 2,5 % |
| | | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 2000 mg/kg | |
| 6846-50-0 | 229-934-9 | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate | < 0,5 % |
| | | dermal: LD50 = 18900 mg/kg; oral: LD50 = 3200 mg/kg | |
| - | 911-490-9 | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino] | < 0,5 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 619 mg/kg | |
| 38668-48-3 | 254-075-1 | 1,1'-(p-Tolylimino)dipropyl-2-ol | < 0,5 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 25 - < 200 mg/kg | |
| 130-15-4 | 204-977-6 | 1,4-naphthoquinone | < 0,05 % |
| | | inhalation: ATE = 0,5 mg/l (vapours); inhalation: LC50 = 0,046 mg/l (dusts or mists); oral: LD50 = 124 mg/kg M acute; H400: M=10 M chron.; H410: M=1 | |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

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

May cause an allergic skin reaction.

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

Foam
 Extinguishing powder
 Water spray jet
 Carbon dioxide (CO2)

Safety Data Sheet

according to UK REACH Regulation

KEM HR (A)

Revision date: 16.03.2023

Page 4 of 16

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Pyrolysis products, toxic

Carbon monoxide

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. In case of fire and/or explosion do not breathe fumes.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Use personal protective equipment as required. Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**Other information**

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand

Treat the recovered material as prescribed in the section on waste disposal.

Retain contaminated washing water and dispose it.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Use only outdoors or in a well-ventilated area.

Wear personal protection equipment (refer to section 8).

Avoid contact with skin, eyes and clothes.

When using do not eat, drink or smoke.

Wash hands thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

Advice on general occupational hygiene

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme.

Wash hands thoroughly after handling. When using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Store in a place accessible by authorized persons only. Keep only in the original container in a cool, well-ventilated place.

Hints on joint storage

Do not use for products which come into contact with the food stuffs.

Safety Data Sheet

according to UK REACH Regulation

KEM HR (A)

Revision date: 16.03.2023

Page 5 of 16

Further information on storage conditions

storage temperature: 5 - 25°C

7.3. Specific end use(s)

Adhesive mortar for fastening elements A-component (resin)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Safety Data Sheet

according to UK REACH Regulation

KEM HR (A)

Revision date: 16.03.2023

Page 6 of 16

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|---|----------------|-------------------------|-------|
| 2082-81-7 | Tetramethylene dimethacrylate | | | |
| Worker DNEL, long-term | inhalation | systemic | 14,5 mg/m ³ | |
| Worker DNEL, long-term | dermal | systemic | 4,2 mg/kg bw/day | |
| Consumer DNEL, long-term | inhalation | systemic | 4,3 mg/m ³ | |
| Consumer DNEL, long-term | dermal | systemic | 2,5 mg/kg bw/day | |
| Consumer DNEL, long-term | oral | systemic | 2,5 mg/kg bw/day | |
| 25013-15-4 | Vinyltoluene | | | |
| Worker DNEL, long-term | inhalation | systemic | 37 mg/m ³ | |
| Worker DNEL, acute | inhalation | systemic | 37 mg/m ³ | |
| Worker DNEL, long-term | inhalation | local | 37 mg/m ³ | |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol | | | |
| Worker DNEL, long-term | inhalation | systemic | 14,7 mg/m ³ | |
| Worker DNEL, long-term | dermal | systemic | 4,2 mg/kg bw/day | |
| Consumer DNEL, long-term | inhalation | systemic | 18,8 mg/m ³ | |
| Consumer DNEL, long-term | dermal | systemic | 2,5 mg/kg bw/day | |
| Consumer DNEL, long-term | oral | systemic | 2,5 mg/kg bw/day | |
| 6846-50-0 | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate | | | |
| Worker DNEL, long-term | dermal | systemic | 5 mg/kg bw/day | |
| Worker DNEL, long-term | inhalation | systemic | 17,62 mg/m ³ | |
| Consumer DNEL, long-term | inhalation | systemic | 4,35 mg/m ³ | |
| Consumer DNEL, long-term | oral | systemic | 5 mg/kg bw/day | |
| Consumer DNEL, long-term | dermal | systemic | 5 mg/kg bw/day | |
| - | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino] | | | |
| Worker DNEL, long-term | inhalation | systemic | 9,8 mg/m ³ | |
| Worker DNEL, long-term | dermal | systemic | 1,4 mg/kg bw/day | |
| Consumer DNEL, long-term | inhalation | systemic | 2,9 mg/m ³ | |
| Consumer DNEL, long-term | oral | systemic | 0,83 mg/kg bw/day | |
| Consumer DNEL, long-term | dermal | systemic | 0,83 mg/kg bw/day | |
| 38668-48-3 | 1,1'-(p-Tolylimino)dipropen-2-ol | | | |
| Worker DNEL, long-term | inhalation | systemic | 2 mg/m ³ | |
| Worker DNEL, long-term | dermal | systemic | 0,6 mg/kg bw/day | |
| Consumer DNEL, long-term | oral | systemic | 0,3 mg/kg bw/day | |
| Consumer DNEL, long-term | dermal | systemic | 0,3 mg/kg bw/day | |
| Consumer DNEL, long-term | inhalation | systemic | 0,4 mg/m ³ | |
| 130-15-4 | 1,4-naphthoquinone | | | |
| Worker DNEL, long-term | inhalation | systemic | 0,033 mg/m ³ | |

Safety Data Sheet

according to UK REACH Regulation

KEM HR (A)

Revision date: 16.03.2023

Page 7 of 16

PNEC values

| CAS No | Substance | |
|--|--|--------------|
| Environmental compartment | | Value |
| 2082-81-7 | Tetramethylene dimethacrylate | |
| Freshwater | | 0,043 mg/l |
| Marine water | | 0,004 mg/l |
| Freshwater sediment | | 3,12 mg/kg |
| Marine sediment | | 0,312 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 2 mg/l |
| Soil | | 0,573 mg/kg |
| 25013-15-4 | Vinyltoluene | |
| Freshwater | | 0,05 mg/l |
| Marine water | | 0,002 mg/l |
| Freshwater sediment | | 0,684 mg/kg |
| Marine sediment | | 0,684 mg/kg |
| Soil | | 0,133 mg/kg |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol | |
| Freshwater | | 0,904 mg/l |
| Marine water | | 0,904 mg/l |
| Freshwater sediment | | 6,28 mg/kg |
| Marine sediment | | 6,28 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |
| Soil | | 0,727 mg/kg |
| 6846-50-0 | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate | |
| Freshwater | | 0,014 mg/l |
| Marine water | | 0,001 mg/l |
| Freshwater sediment | | 5,29 mg/kg |
| Marine sediment | | 0,529 mg/kg |
| Soil | | 1,05 mg/kg |
| - | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl] (4-methylphenyl)amino] | |
| Freshwater | | 0,048 mg/l |
| Marine water | | 0,005 mg/l |
| Freshwater sediment | | 0,12 mg/kg |
| Marine sediment | | 0,12 mg/kg |
| 38668-48-3 | 1,1'-(p-Tolylimino)dipropyl-2-ol | |
| Freshwater | | 0,017 mg/l |
| Marine water | | 0,0017 mg/l |
| Freshwater sediment | | 0,0783 mg/kg |
| Marine sediment | | 0,0072 mg/kg |
| Soil | | 0,005 mg/kg |
| 130-15-4 | 1,4-naphthoquinone | |
| Freshwater | | 26,1 mg/l |
| Marine water | | 2,61 mg/l |

Safety Data Sheet

according to UK REACH Regulation

KEM HR (A)

Revision date: 16.03.2023

Page 8 of 16

| | |
|--|------------|
| Freshwater sediment | 321 mg/kg |
| Marine sediment | 32,1 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | 0,172 mg/l |
| Soil | 49 mg/kg |

Additional advice on limit values

This mixture contains quartz (inorganic filler) which is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded. Exposure limit values for respirable dusts are not relevant for this product.

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection. Wear safety glasses.

Hand protection

Disposable gloves

Recommended material: NBR (Nitrile rubber)

Breakthrough time: > 480 min

Thickness of the glove material: > 0,2 mm

DIN-/EN-Norms EN 374

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respiratory protection with combination filter A1P2 (organic gases/vapors and particles) recommended.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|------------------|-------------------|
| Physical state: | solid (pasty) |
| Colour: | light beige |
| Odour: | characteristic |
| Odour threshold: | No data available |

Changes in the physical state

| | |
|---|----------------|
| Melting point/freezing point: | not determined |
| Boiling point or initial boiling point and boiling range: | not determined |
| Flash point: | not applicable |

Flammability

| | |
|---------------|----------------|
| Solid/liquid: | not determined |
|---------------|----------------|

Safety Data Sheet

according to UK REACH Regulation

KEM HR (A)

Revision date: 16.03.2023

Page 9 of 16

Gas: not applicable

Lower explosion limits: not determined

Upper explosion limits: not determined

Self-ignition temperature

Solid: not determined

Gas: not applicable

Decomposition temperature: not determined

pH-Value: not determined

Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Vapour pressure: not determined

Density (at 20 °C): 1,72 g/cm³

Relative vapour density: not determined

9.2. Other information

Information with regard to physical hazard classes

Oxidizing properties

Not oxidising.

Other safety characteristics

Solid content: not determined

Evaporation rate: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Response: Oxidising agent, strong

10.4. Conditions to avoid

Heat. Keep cool. Protect from sunlight.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

ATEmix calculated

ATE (oral) 11282,6 mg/kg; ATE (inhalation vapour) 265,95 mg/l; ATE (inhalation dust/mist) 36,266 mg/l

Safety Data Sheet

according to UK REACH Regulation

KEM HR (A)

Revision date: 16.03.2023

Page 10 of 16

| CAS No | Chemical name | | | | |
|------------|---|-------------------------|------------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 2082-81-7 | Tetramethylene dimethacrylate | | | | |
| | oral | LD50 10066 mg/kg | Rat | | |
| | dermal | LD50 > 3000 mg/kg | Rabbit | | |
| 25013-15-4 | Vinyltoluene | | | | |
| | dermal | LD50 4585 mg/kg | Rabbit | | |
| | inhalation vapour | ATE 11 mg/l | | | |
| | inhalation dust/mist | ATE 1,5 mg/l | | | |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | | |
| | dermal | LD50 > 5000 mg/kg | Rabbit | | |
| 6846-50-0 | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate | | | | |
| | oral | LD50 3200 mg/kg | Rat | | |
| | dermal | LD50 18900 mg/kg | Guinea pig | | |
| - | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino] | | | | |
| | oral | LD50 619 mg/kg | Rat | | |
| | dermal | LD50 > 2000 mg/kg | Rat | | |
| 38668-48-3 | 1,1'-(p-Tolylimino)dipropen-2-ol | | | | |
| | oral | LD50 > 25 - < 200 mg/kg | Rat | | |
| | dermal | LD50 > 2000 mg/kg | Rat | | |
| 130-15-4 | 1,4-naphthoquinone | | | | |
| | oral | LD50 124 mg/kg | Rat | | |
| | inhalation vapour | ATE 0,5 mg/l | | | |
| | inhalation (4 h) dust/mist | LC50 0,046 mg/l | Rat | | |

Irritation and corrosivity

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

Sensitising effects

May cause an allergic skin reaction. (Tetramethylene dimethacrylate; Methacrylic acid, monoester with propane-1,2-diol; Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]; 1,4-naphthoquinone)

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

Safety Data Sheet

according to UK REACH Regulation

KEM HR (A)

Revision date: 16.03.2023

Page 11 of 16

STOT-repeated exposure

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

Aspiration hazard

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

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

Safety Data Sheet

according to UK REACH Regulation

KEM HR (A)

Revision date: 16.03.2023

Page 12 of 16

| CAS No | Chemical name | | | | | |
|------------|--|------------|-----------|---------|---------------------------------|----------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 2082-81-7 | Tetramethylene dimethacrylate | | | | | |
| | Acute algae toxicity | ErC50 mg/l | 9,79 | 72 h | | |
| | Crustacea toxicity | NOEC mg/l | 5,09 | 21 d | | |
| 25013-15-4 | Vinyltoluene | | | | | |
| | Acute fish toxicity | LC50 mg/l | 1 - 10 | 96 h | | |
| | Acute algae toxicity | ErC50 mg/l | 0,319 | 72 h | | |
| | Acute crustacea toxicity | EC50 | 9,3 mg/l | 48 h | Daphnia magna (Big water flea) | |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol | | | | | |
| | Acute algae toxicity | ErC50 mg/l | > 97,2 | 72 h | Pseudokirchneriella subcapitata | |
| | Acute crustacea toxicity | EC50 mg/l | > 143 | 48 h | Daphnia magna (Big water flea) | |
| | Algae toxicity | NOEC mg/l | | | | |
| 6846-50-0 | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate | | | | | |
| | Algae toxicity | NOEC mg/l | 2,25 | 3 d | | |
| - | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl] (4-methylphenyl)amino] | | | | | |
| | Acute fish toxicity | LC50 mg/l | > 100 | 96 h | | |
| | Acute algae toxicity | ErC50 mg/l | > 100 | 72 h | | |
| | Acute crustacea toxicity | EC50 | 48 mg/l | 48 h | | |
| 38668-48-3 | 1,1'-(p-Tolylimino)dipropen-2-ol | | | | | |
| | Acute fish toxicity | LC50 | 17 mg/l | 96 h | Danio rerio (zebrafish) | |
| | Acute algae toxicity | ErC50 | 245 mg/l | 72 h | Desmodesmus subspicatus | |
| | Acute crustacea toxicity | EC50 mg/l | 28,8 | 48 h | Daphnia magna (Big water flea) | |
| | Algae toxicity | NOEC mg/l | 57,8 | 72 d | Desmodesmus subspicatus | OECD 201 |
| 130-15-4 | 1,4-naphthoquinone | | | | | |
| | Acute fish toxicity | LC50 mg/l | 0,045 | 96 h | Oryzias latipes (Ricefish) | |
| | Acute algae toxicity | ErC50 mg/l | 0,42 | 72 h | | |
| | Acute crustacea toxicity | EC50 mg/l | 0,026 | 48 h | | |
| | Algae toxicity | NOEC mg/l | 0,07 | 3 d | | |

12.2. Persistence and degradability

The product has not been tested.

Safety Data Sheet

according to UK REACH Regulation

KEM HR (A)

Revision date: 16.03.2023

Page 13 of 16

| CAS No | Chemical name | Value | d | Source |
|------------|---|--------|----|--------|
| | Method | | | |
| | Evaluation | | | |
| 2082-81-7 | Tetramethylene dimethacrylate | | | |
| | OECD 310 | 84 % | 28 | |
| 25013-15-4 | Vinyltoluene | | | |
| | OECD 310 | 36,7 % | 28 | |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol | | | |
| | OECD 301C | 81% | 28 | |
| 130-15-4 | 1,4-naphthoquinone | | | |
| | | 39 % | 5 | |

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|---|---------|
| 2082-81-7 | Tetramethylene dimethacrylate | 3,1 |
| 25013-15-4 | Vinyltoluene | 3,35 |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol | 0,97 |
| 6846-50-0 | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate | 4,91 |
| - | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino] | 2,17 |
| 38668-48-3 | 1,1'-(p-Tolylimino)dipropyl-2-ol | 2,1 |
| 130-15-4 | 1,4-naphthoquinone | 1,77 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|------------|---------------|-----------|---------|--------|
| 25013-15-4 | Vinyltoluene | 100 - 320 | | |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Subsequent waste code numbers of the European Waste Catalogue are considered as recommendations.

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

List of Wastes Code - residues/unused products

Safety Data Sheet

according to UK REACH Regulation

KEM HR (A)

Revision date: 16.03.2023

Page 14 of 16

- 080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - used product

- 080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

- 150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

SECTION 14: Transport information

Land transport (ADR/RID)

- | | |
|---|--|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

Inland waterways transport (ADN)

- | | |
|---|--|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

Marine transport (IMDG)

- | | |
|---|--|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

Air transport (ICAO-TI/IATA-DGR)

- | | |
|---|--|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 40, Entry 75

Safety Data Sheet

according to UK REACH Regulation

KEM HR (A)

Revision date: 16.03.2023

Page 15 of 16

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III)
(SEVESO III):

Additional information

VOC content: 2,8 % (DIN EN ISO 11890-2)

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

National regulatory information

| | |
|--------------------------------|--|
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). |
| Water hazard class (D): | 2 - obviously hazardous to water |
| Skin resorption/Sensitization: | Causes allergic hypersensitivity reactions. |

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Abbreviations and acronyms**

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation
(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR: Accord européen sur le transport des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS: Chemical Abstracts Service
CLP: Classification, Labeling and Packaging
DMEL: Derived Minimal Effect level
DNEL: Derived No Effect Level
EC50: Effective concentration, 50%
ErC50: EC50 in terms of reduction of growth rate
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)
IMDG: International Maritime Code for Dangerous Goods
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
PBT: persistent, bioaccumulative and toxic
vPvB: very persistent and very bioaccumulative
PNEC: Predicted No Effect Concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
VOC: Volatile organic compound
Acute Tox. 3: Acute toxicity, Category 3
Acute Tox. 2: Acute toxicity, Category 2
Acute Tox. 4: Acute toxicity, Category 4
Aquatic Acute 1: Acute aquatic hazard, Category 1
Aquatic Chronic 1: Long-term aquatic hazard, Category 1
Aquatic Chronic 3: Long-term aquatic 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 liquid, Category 3
Repr. 2: Reproductive toxicity, Category 2
Skin Corr. 1C: Skin corrosion/irritation, Category 1C

Safety Data Sheet

according to UK REACH Regulation

KEM HR (A)

Revision date: 16.03.2023

Page 16 of 16

Skin Irrit. 2: Serious eye damage/eye irritation, Category 2
Skin Sens. 1A: Skin sensitization, Category 1A
Skin Sens. 1B: Skin sensitization, Category 1B
STOT SE 3: Specific target organ toxicity (single exposure), Category 3

Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Skin Sens. 1; H317 | Calculation method |
| Aquatic Chronic 3; H412 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|-------|---|
| H226 | Flammable liquid and vapour. |
| H300 | Fatal if swallowed. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H361d | Suspected of damaging the unborn child. |
| 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. |

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

Safety Data Sheet

according to UK REACH Regulation

KEM HR (B)

Revision date: 16.03.2023

Page 1 of 10

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

KEM HR (B)

UFI: AQPV-A04D-R00R-V2N9

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

compound mortar B-component (hardener)

Uses advised against

no restriction

1.3. Details of the supplier of the safety data sheet

Company name: FRIULSIDER S.p.A.

Street: Via Trieste 1

Place: I-33048 San Giovanni al Natisone, Udine

Telephone: +(39) 0432 747911

Internet: www.friulsider.com

Responsible Department: environmental@friulsider.com; info@friulsider.com

1.4. Emergency telephone**number:** Company +39 0432 747911 Monday-Friday 8:30 am - 5:30 pm**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Eye Irrit. 2; H319

Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

Dibenzoyl peroxide

Signal word: Warning**Pictograms:****Hazard statements**

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing vapours.

P280 Wear protective gloves and eye/face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

Safety Data Sheet

according to UK REACH Regulation

KEM HR (B)

Revision date: 16.03.2023

Page 2 of 10

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

| CAS No | Chemical name | | | Quantity |
|---------|---|--------------|------------------|------------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 94-36-0 | Dibenzoyl peroxide | | | 5 - < 15 % |
| | 202-327-6 | 617-008-00-0 | 01-2119511472-50 | |
| | Org. Perox. B, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H241 H319 H317 H400 H410 | | | |

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

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|---------|---|--|------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 94-36-0 | 202-327-6 | Dibenzoyl peroxide | 5 - < 15 % |
| | oral: LD50 = > 5000 mg/kg M acute; H400: M=10 M chron.; H410: M=10 | | |

Further Information

The product has been tested for aquatic toxicity. The tests show no need for classification of the product as toxic and harmful to aquatic life. Test reports are available.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

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

May cause an allergic skin reaction.

Causes serious eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Safety Data Sheet

according to UK REACH Regulation

KEM HR (B)

Revision date: 16.03.2023

Page 3 of 10

Suitable extinguishing media

Foam
Extinguishing powder
Water spray jet
Carbon dioxide (CO₂)

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Pyrolysis products, toxic
Carbon monoxide

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes.
Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.
Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Use personal protective equipment as required. Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**Other information**

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand
Treat the recovered material as prescribed in the section on waste disposal.
Retain contaminated washing water and dispose it.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Use only outdoors or in a well-ventilated area.
Wear personal protection equipment (refer to section 8).
Avoid contact with skin, eyes and clothes.
When using do not eat, drink or smoke.
Wash hands thoroughly after handling.
Take off contaminated clothing and wash it before reuse.

Advice on general occupational hygiene

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme.
Wash hands thoroughly after handling. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed.

Safety Data Sheet

according to UK REACH Regulation

KEM HR (B)

Revision date: 16.03.2023

Page 4 of 10

Store in a place accessible by authorized persons only.
 Keep only in the original container in a cool, well-ventilated place.

Hints on joint storage

Do not store together with: Oxidising agent, strong
 Do not use for products which come into contact with the food stuffs.

Further information on storage conditions

Keep container tightly closed in a cool place.
 storage temperature: 5 - 25°C

7.3. Specific end use(s)

see section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|---------|--------------------|-----|-------------------|-----------|-----------|--------|
| 94-36-0 | Dibenzoyl peroxide | - | 5 | | TWA (8 h) | WEL |
| 56-81-5 | Glycerol, mist | - | 10 | | TWA (8 h) | WEL |

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|--------------------|----------------|----------|----------------------|
| 94-36-0 | Dibenzoyl peroxide | | | |
| Consumer DNEL, long-term | | oral | systemic | 2 mg/kg bw/day |
| Worker DNEL, long-term | | dermal | systemic | 13,3 mg/kg bw/day |
| Worker DNEL, long-term | | inhalation | systemic | 39 mg/m ³ |

PNEC values

| CAS No | Substance | Value |
|---------------------|---------------------------|---------------|
| | Environmental compartment | |
| 94-36-0 | Dibenzoyl peroxide | |
| Freshwater | | 0,00002 mg/l |
| Marine water | | 0,000002 mg/l |
| Freshwater sediment | | 0,013 mg/kg |
| Marine sediment | | 0,001 mg/kg |

Additional advice on limit values

This mixture contains quartz (inorganic filler) which is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded. Exposure limit values for respirable dusts are not relevant for this product.

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area

Safety Data Sheet

according to UK REACH Regulation

KEM HR (B)

Revision date: 16.03.2023

Page 5 of 10

must be ventilated by technical means.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection. Wear safety glasses.

Hand protection

Disposable gloves

Recommended material: NBR (Nitrile rubber)

Breakthrough time: > 480 min

Thickness of the glove material: > 0,2 mm

DIN-/EN-Norms EN 374

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respiratory protection with combination filter A1P2 (organic gases/vapors and particles) recommended.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|------------------|-------------------|
| Physical state: | solid (pasty) |
| Colour: | black |
| Odour: | characteristic |
| Odour threshold: | No data available |

Changes in the physical state

| | |
|---|----------------|
| Melting point/freezing point: | not determined |
| Boiling point or initial boiling point and boiling range: | not determined |
| Flash point: | not applicable |

Flammability

| | |
|-------------------------|----------------|
| Solid/liquid: | not determined |
| Gas: | not applicable |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |

Self-ignition temperature

| | |
|----------------------------|----------------|
| Solid: | not determined |
| Gas: | not applicable |
| Decomposition temperature: | not determined |
| pH-Value: | not determined |

| | |
|-------------------|--|
| Water solubility: | The study does not need to be conducted because the substance is known to be insoluble in water. |
|-------------------|--|

Solubility in other solvents

| | |
|--|----------------|
| not determined | |
| Partition coefficient n-octanol/water: | not determined |

Safety Data Sheet

according to UK REACH Regulation

KEM HR (B)

Revision date: 16.03.2023

Page 6 of 10

| | |
|--------------------------|------------------------|
| Vapour pressure: | not determined |
| Density (at 20 °C): | 1,59 g/cm ³ |
| Relative vapour density: | not determined |

9.2. Other information

Information with regard to physical hazard classes

Oxidizing properties

Not oxidising.

Available oxygen content < 1%

no classification

Other safety characteristics

| | |
|----------------|----------------|
| Solid content: | not determined |
|----------------|----------------|

| | |
|-------------------|----------------|
| Evaporation rate: | not determined |
|-------------------|----------------|

SECTION 10: Stability and reactivity

10.1. Reactivity

see section 10.3

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Violent reaction with: Oxidising agent

10.4. Conditions to avoid

see section 7.2

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

Benzoic acid

Benzene

Biphenyl

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

| CAS No | Chemical name | | | | |
|---------|--------------------|-------------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 94-36-0 | Dibenzoyl peroxide | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | | |

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (Dibenzoyl peroxide)

Carcinogenic/mutagenic/toxic effects for reproduction

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

Safety Data Sheet

according to UK REACH Regulation

KEM HR (B)

Revision date: 16.03.2023

Page 7 of 10

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

OECD 201 (Desmodesmus subspicatus)

IC10: (0 - 72 h) = 30 mg/l

IC50: (0 - 72 h) = 150 mg/l

OECD 202 (Daphnia magna)

EC0/NOEC (48h) = 100 mg/l

EC50 (48h) = >500 mg/l

EC100 (48h) = >>500 mg/l

OECD 203 (Danio rerio)

LC0/NOEC (96 h) : 250 mg/l

LC50 (96 h) : > 500 mg/l

LC100 (96 h) : >> 500 mg/l

| CAS No | Chemical name | | | | | |
|---------|--------------------------|---------------|-----------|---------|--|----------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 94-36-0 | Dibenzoyl peroxide | | | | | |
| | Acute fish toxicity | LC50 mg/l | 0,0602 | 96 h | Oncorhynchus mykiss (Rainbow trout) | OECD 203 |
| | Acute algae toxicity | ErC50 mg/l | 0,0711 | 72 h | Pseudokirchneriella subcapitata | OECD 201 |
| | Acute crustacea toxicity | EC50 mg/l | 0,11 | 48 h | Daphnia magna (Big water flea) | OECD 202 |
| | Algae toxicity | NOEC mg/l | 0,02 | 3 d | Pseudokirchneriella subcapitata | OECD 201 |
| | Crustacea toxicity | NOEC mg/l | 0,001 | 21 d | Daphnia magna (Big water flea) | OECD 211 |
| | Acute bacteria toxicity | (EC50 | 35 mg/l) | 0,5 h | | OECD 209 |

12.2. Persistence and degradability

The product has not been tested.

| CAS No | Chemical name | | | |
|---------|---|-------|----|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 94-36-0 | Dibenzoyl peroxide | | | |
| | OECD 301D | 71% | 28 | |
| | Readily biodegradable (according to OECD criteria). | | | |

12.3. Bioaccumulative potential

The product has not been tested.

Safety Data Sheet

according to UK REACH Regulation

KEM HR (B)

Revision date: 16.03.2023

Page 8 of 10

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|---------|--------------------|---------|
| 94-36-0 | Dibenzoyl peroxide | 3,2 |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Subsequent waste code numbers of the European Waste Catalogue are considered as recommendations.

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - used product

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

Safety Data Sheet

according to UK REACH Regulation

KEM HR (B)

Revision date: 16.03.2023

Page 9 of 10

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)**14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)**14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III)
(SEVESO III):**Additional information**

VOC content: 4,3 % (DIN EN ISO 11890-2)

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

1 - slightly hazardous to water

Skin resorption/Sensitization:

Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Abbreviations and acronyms**

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation

(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR: Accord européen sur le transport des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

DMEL: Derived Minimal Effect level

DNEL: Derived No Effect Level

Safety Data Sheet

according to UK REACH Regulation

KEM HR (B)

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Page 10 of 10

EC50: Effective concentration, 50%
 IATA: International Air Transport Association
 IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)
 ICAO: International Civil Aviation Organization
 IC50: Inhibitory concentration, 50%
 IMDG: International Maritime Code for Dangerous Goods
 LC50: Lethal concentration, 50%
 LD50: Lethal dose, 50%
 NOEC: No Observed Effect Concentration
 OECD: Organisation for Economic Co-operation and Development
 PBT: persistent, bioaccumulative and toxic
 vPvB: very persistent and very bioaccumulative
 PNEC: Predicted No Effect Concentration
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
 RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
 VOC: Volatile organic compound
 Aquatic Acute 1: Acute aquatic hazard, Category 1
 Aquatic Chronic 1: Long-term aquatic hazard, Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation, Category 2
 Skin Sens. 1: Skin sensitization, Category 1
 Org. Perox. B: Organic Peroxides, Type B

Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|--------------------|--------------------------|
| Eye Irrit. 2; H319 | Calculation method |
| Skin Sens. 1; H317 | Calculation method |

Relevant H and EUH statements (number and full text)

H241 Heating may cause a fire or explosion.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)