

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 1 of 21

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

1.1. Product identifier

Kisling - 1668 - Component A 1670

UFI: CU62-807V-G00U-K2JD

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

Use of the substance/mixture

Adhesives and sealants

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name: Kisling AG
Street: Motorenstrasse 102
Place: CH-8620 Wetzikon
Telephone: +41 58 272 0 272
E-mail: customerservice@kisling.com
Internet: www.kisling.com

Supplier

Company name: Kisling (Deutschland) GmbH
Street: Salzstraße 15
Place: D-74676 Niedernhall
Telephone: +49 7940 50961 61
E-mail: customerservice@kisling.com
Contact person: Dr. Hans Götz Telephone: +49 7940 5096 143
E-mail: compliance@kisling.com
Internet: www.kisling.com

1.4. Emergency telephone number:

24 hr. emergency phone number +1 872 5888271 (KAR)
Medicines & Poisons Info Office +356 2545 6508

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Sol. 1; H228
Skin Irrit. 2; H315
Eye Dam. 1; H318
Skin Sens. 1; H317
STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate
methacrylic acid; 2-methylpropenoic acid
Propylidynetrimethanol, ethoxylated, esters with acrylic acid
2-hydroxyethyl methacrylate
Reaction mass of 2,2'-[[4-methylphenyl]imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl]
(4-methylphenyl)amino]-
Cobalt bis(2-ethylhexanoate)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 2 of 21

Signal word: Danger

Pictograms:



Hazard statements

- H228 Flammable solid.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.

Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P280 Wear protective gloves and eye/face protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:



Hazard statements

H317-H318

Precautionary statements

P280-P305+P351+P338-P310

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances listed below with nonhazardous components.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 3 of 21

Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|--|--------------|------------------|--------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 80-62-6 | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | | | 50 - < 100 % |
| | 201-297-1 | 607-035-00-6 | | |
| | Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335 | | | |
| 79-41-4 | methacrylic acid; 2-methylpropenoic acid | | | 1 - < 5 % |
| | 201-204-4 | 607-088-00-5 | 01-2119463884-26 | |
| | Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, STOT SE 3; H311 H332 H302 H314 H318 H335 | | | |
| 28961-43-5 | Propylidynetrimethanol, ethoxylated, esters with acrylic acid | | | 1 - < 5 % |
| | 500-066-5 | | 01-2119489900-30 | |
| | Eye Irrit. 2, Skin Sens. 1B; H319 H317 | | | |
| 52628-03-2 | 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate | | | 1 - < 5 % |
| | 258-053-2 | | | |
| | Skin Irrit. 2, Eye Dam. 1; H315 H318 | | | |
| 868-77-9 | 2-hydroxyethyl methacrylate | | | 0.1 - < 1 % |
| | 212-782-2 | 607-124-00-X | 01-2119490169-29 | |
| | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317 | | | |
| | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- | | | 0.1 - < 1 % |
| | 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 | | | |
| 136-52-7 | Cobalt bis(2-ethylhexanoate) | | | 0.1 - < 1 % |
| | 205-250-6 | | 01-2119524678-29 | |
| | Repr. 2, Eye Irrit. 2, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 3; H361f H319 H317 H400 H412 | | | |
| 91-66-7 | N,N-diethylaniline | | | 0.1 - < 1 % |
| | 202-088-8 | 612-054-00-8 | 01-2119943758-22 | |
| | Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Chronic 2; H331 H311 H301 H373 H411 | | | |

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 4 of 21

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|-----------|---|--------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 80-62-6 | 201-297-1 | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | 50 - < 100 % |
| | | inhalation: LC50 = 29,8 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = ca. 7900 mg/kg | |
| 79-41-4 | 201-204-4 | methacrylic acid; 2-methylpropenoic acid | 1 - < 5 % |
| | | inhalation: LC50 = 7,1 mg/l (vapours); inhalation: ATE = 1.5 mg/l (dusts or mists); dermal: LD50 = 500 mg/kg; oral: LD50 = 1320 mg/kg STOT SE 3; H335: >= 1 - 100 | |
| 28961-43-5 | 500-066-5 | Propylidynetrimethanol, ethoxylated, esters with acrylic acid | 1 - < 5 % |
| | | dermal: LD50 = > 13200 mg/kg; oral: LD50 = > 2000 mg/kg | |
| 52628-03-2 | 258-053-2 | 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate | 1 - < 5 % |
| | | oral: LD50 = > 2000 mg/kg | |
| 868-77-9 | 212-782-2 | 2-hydroxyethyl methacrylate | 0.1 - < 1 % |
| | | dermal: LD50 = >3000 mg/kg; oral: LD50 = 5050 mg/kg | |
| | 911-490-9 | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- | 0.1 - < 1 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 619 mg/kg | |
| 136-52-7 | 205-250-6 | Cobalt bis(2-ethylhexanoate) | 0.1 - < 1 % |
| | | dermal: LD50 = 5690 mg/kg; oral: LD50 = 3129 mg/kg | |
| 91-66-7 | 202-088-8 | N,N-diethylaniline | 0.1 - < 1 % |
| | | inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0.5 mg/l (dusts or mists); dermal: LD50 = > 400 mg/kg; oral: ATE = 100 mg/kg | |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off immediately all contaminated clothing.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. 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 skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

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

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Get immediate medical advice/attention.

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

No further relevant information available.

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

Treat symptomatically. No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Co-ordinate fire-fighting measures to the fire

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 5 of 21

surroundings.

Unsuitable extinguishing media

No information available.

5.2. Special hazards arising from the substance or mixture

Non-flammable. Vapours can form explosive mixtures with air. In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. 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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

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

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. No special handling advices are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

Further information on handling

Keep only in the original container in a cool, well-ventilated place.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 08.03.2024

Kisling - 1668 - Component A 1670

Product code: 1668

Page 6 of 21

Hints on joint storage

none

Further information on storage conditions

Store in a cool dry place. Protect from direct sunlight.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

| CAS No | Name of agent | ppm | mg/m³ | fib/cm³ | Category | Origin |
|---------|---------------------|-----|-------|---------|---------------|--------|
| 80-62-6 | Methyl methacrylate | 50 | - | | TWA (8 h) | |
| | | 100 | - | | STEL (15 min) | |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 7 of 21

DNEL/DMEL values

| CAS No | Name of agent | | | |
|--------------------------|--|----------------|----------|--------------------|
| DNEL type | | Exposure route | Effect | Value |
| 80-62-6 | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | | | |
| Worker DNEL, long-term | | inhalation | systemic | 348,4 mg/m³ |
| Worker DNEL, long-term | | inhalation | local | 208 mg/m³ |
| Worker DNEL, acute | | inhalation | local | 416 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 13,67 mg/kg bw/day |
| Worker DNEL, long-term | | dermal | local | 1,5 mg/cm² |
| Worker DNEL, acute | | dermal | local | 1,5 mg/cm² |
| Consumer DNEL, long-term | | inhalation | systemic | 74,3 mg/m³ |
| Consumer DNEL, long-term | | inhalation | local | 104 mg/m³ |
| Consumer DNEL, acute | | inhalation | local | 208 mg/m³ |
| Consumer DNEL, long-term | | dermal | systemic | 8,2 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | local | 1,5 mg/cm² |
| Consumer DNEL, acute | | dermal | local | 1,5 mg/cm² |
| Consumer DNEL, long-term | | oral | systemic | 8,2 mg/kg bw/day |
| 79-41-4 | methacrylic acid; 2-methylpropenoic acid | | | |
| Worker DNEL, long-term | | inhalation | systemic | 39,3 mg/m³ |
| Worker DNEL, long-term | | inhalation | local | 44 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 4,25 mg/kg bw/day |
| Worker DNEL, long-term | | dermal | local | 0,38 mg/cm² |
| Consumer DNEL, long-term | | inhalation | systemic | 11,7 mg/m³ |
| Consumer DNEL, long-term | | inhalation | local | 8,8 mg/m³ |
| Consumer DNEL, long-term | | dermal | systemic | 5,35 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | local | 0,23 mg/cm² |
| Consumer DNEL, long-term | | oral | systemic | 5,35 mg/kg bw/day |
| 28961-43-5 | Propylidynetrimethanol, ethoxylated, esters with acrylic acid | | | |
| Worker DNEL, long-term | | inhalation | systemic | 37 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 10,5 mg/kg bw/day |
| 52628-03-2 | 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate | | | |
| Worker DNEL, long-term | | inhalation | systemic | 7,04 mg/m³ |
| Consumer DNEL, long-term | | inhalation | systemic | 1,74 mg/m³ |
| | 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/m³ |
| Worker DNEL, long-term | | dermal | systemic | 1,4 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 1,74 mg/m³ |
| Consumer DNEL, long-term | | dermal | systemic | 0,5 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,5 mg/kg bw/day |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 08.03.2024

Product code: 1668

Page 8 of 21

Kisling - 1668 - Component A 1670

| | | | |
|--------------------------|------------------------------|----------|---------------------|
| 136-52-7 | Cobalt bis(2-ethylhexanoate) | | |
| Consumer DNEL, long-term | oral | systemic | 0.175 mg/kg bw/day |
| 91-66-7 | N,N-diethylaniline | | |
| Worker DNEL, long-term | dermal | systemic | 7 mg/kg bw/day |
| Consumer DNEL, long-term | dermal | systemic | 2,5 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 0,0167 mg/kg bw/day |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 9 of 21

PNEC values

| CAS No | Name of agent | |
|--|---|-------------|
| Environmental compartment | | Value |
| 80-62-6 | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | |
| Freshwater | | 0,94 mg/l |
| Freshwater (intermittent releases) | | 0,69 mg/l |
| Marine water | | 0,094 mg/l |
| Freshwater sediment | | 10,2 mg/kg |
| Marine sediment | | 1,02 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |
| Soil | | 1,48 mg/kg |
| 79-41-4 | methacrylic acid; 2-methylpropenoic acid | |
| Freshwater | | 0,82 mg/l |
| Freshwater (intermittent releases) | | 0,45 mg/l |
| Marine water | | 0,082 mg/l |
| Freshwater sediment | | 3,09 mg/kg |
| Marine sediment | | 0,309 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 100 mg/l |
| Soil | | 0,137 mg/kg |
| 28961-43-5 | Propylidynetrimethanol, ethoxylated, esters with acrylic acid | |
| Freshwater | | 0,002 mg/l |
| Freshwater (intermittent releases) | | 0,019 mg/l |
| Marine water | | 0 mg/l |
| Freshwater sediment | | 0,038 mg/kg |
| Marine sediment | | 0,004 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |
| Soil | | 0,006 mg/kg |
| 52628-03-2 | 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate | |
| Freshwater | | 0,068 mg/l |
| Freshwater (intermittent releases) | | 0,68 mg/l |
| Marine water | | 0,007 mg/l |
| Freshwater sediment | | 0,481 mg/kg |
| Marine sediment | | 0,048 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 0,546 mg/l |
| Soil | | 0,056 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 |
| Freshwater (intermittent releases) | | 0,48 mg/l |
| Marine water | | 0,005 mg/l |
| Freshwater sediment | | 1,2 mg/kg |
| Marine sediment | | 0,12 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |
| Soil | | 0,21 mg/kg |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 10 of 21

| | | |
|--|------------------------------|---------------|
| 136-52-7 | Cobalt bis(2-ethylhexanoate) | |
| Freshwater | | 0.00106 mg/l |
| Marine water | | 0.00236 mg/l |
| Freshwater sediment | | 53.8 mg/kg |
| Marine sediment | | 69.8 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 0.37 mg/l |
| Soil | | 10.9 mg/kg |
| 91-66-7 | N,N-diethylaniline | |
| Freshwater | | 0,00936 mg/l |
| Freshwater (intermittent releases) | | 0,0742 mg/l |
| Marine water | | 0,000936 mg/l |
| Freshwater sediment | | 2,52 mg/kg |
| Marine sediment | | 0,252 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 0,018 mg/l |
| Soil | | 0,498 mg/kg |

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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. Tested protective gloves must be worn.

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

Use of protective clothing. Wear suitable protective clothing. The type of personal protection equipment has to be chosen based on the concentration and amount of the dangerous substance at the workplace.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|------------------|----------------|
| Physical state: | Paste, solid |
| Colour: | dark blue |
| Odour: | characteristic |
| Odour threshold: | not determined |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 11 of 21

Test method

| | | |
|---|-----------------------|----------------|
| Melting point/freezing point: | not determined | |
| Boiling point or initial boiling point and boiling range: | 100 °C | |
| Flammability: | not determined | not applicable |
| Lower explosion limits: | 2,1 vol. % | |
| Upper explosion limits: | 12,5 vol. % | |
| Flash point: | 10 °C | |
| Auto-ignition temperature: | not determined | |
| Decomposition temperature: | not determined | |
| pH-Value: | not determined | |
| Viscosity / kinematic: | not determined | |
| Water solubility: | practically insoluble | |
| Solubility in other solvents | | |
| not determined | | |
| Partition coefficient n-octanol/water: | not determined | |
| Vapour pressure: | not determined | |
| Density (at 20 °C): | 1,0 g/cm ³ | |
| Relative density: | not determined | |
| Relative vapour density: | not determined | |
| Particle characteristics: | not determined | |

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

In use may form flammable/explosive vapour-air mixture.

Oxidizing properties

not determined

Other safety characteristics

| | |
|------------------------------------|----------------|
| Evaporation rate: | not determined |
| Solid content: | not determined |
| Viscosity / dynamic: (at 25 °C) | 500000 mPa·s |

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

The product is chemically stable under recommended conditions of storage, use and temperature.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No further relevant information available.

SECTION 11: Toxicological information

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 12 of 21

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

Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

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

ATEmix calculated

ATE (oral) 23363 mg/kg; ATE (dermal) 11881 mg/kg; ATE (inhalation vapour) 246.7 mg/l; ATE (inhalation dust/mist) 34.29 mg/l

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 13 of 21

| CAS No | Chemical name | | | | |
|------------|--|---------------------|------------|--|--|
| | Exposure route | Dose | Species | Source | Method |
| 80-62-6 | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | | | | |
| | oral | LD50 ca. 7900 mg/kg | Rat | J. Ind. Hyg. Toxicol. 23: 343-351 (1941) | Study to assess the acute oral toxicity |
| | dermal | LD50 > 5000 mg/kg | Rabbit | Study report (1982) | OECD Guideline 402 |
| | inhalation (4 h) vapour | LC50 29,8 mg/l | Rat | J. Dent. Res. 59: 1074 (1980) | Study to assess the acute inhalative tox |
| 79-41-4 | methacrylic acid; 2-methylpropenoic acid | | | | |
| | oral | LD50 1320 mg/kg | Rat | Study report (1977) | OECD Guideline 401 |
| | dermal | LD50 500 mg/kg | Rabbit | Pre-supplier/manufacturer | |
| | inhalation (4 h) vapour | LC50 7,1 mg/l | Rat | Pre-supplier/manufacturer | OECD 403 |
| | inhalation dust/mist | ATE 1.5 mg/l | | | |
| 28961-43-5 | Propylidynetrimethanol, ethoxylated, esters with acrylic acid | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | Study report (1998) | OECD Guideline 401 |
| | dermal | LD50 > 13200 mg/kg | Rabbit | Study report (1984) | An acute dermal toxicity study was performed |
| 52628-03-2 | 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | Study report (2013) | OECD Guideline 425 |
| 868-77-9 | 2-hydroxyethyl methacrylate | | | | |
| | oral | LD50 5050 mg/kg | Rat | Pre-supplier/manufacturer | |
| | dermal | LD50 >3000 mg/kg | Rabbit | Pre-supplier/manufacturer | |
| | 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 | Study report (1996) | OECD Guideline 401 |
| | dermal | LD50 > 2000 mg/kg | Rat | Study report (2013) | OECD Guideline 402 |
| 136-52-7 | Cobalt bis(2-ethylhexanoate) | | | | |
| | oral | LD50 3129 mg/kg | Rat | Study report (2011) | OECD Guideline 425 |
| | dermal | LD50 5690 mg/kg | Guinea pig | John Wiley & Sons. New York, NY, USA, p. | OECD Guideline 402 |
| 91-66-7 | N,N-diethylaniline | | | | |
| | oral | ATE 100 mg/kg | | | |
| | dermal | LD50 > 400 mg/kg | Rabbit | ChemIDplus (2018) | other: As mentioned below |
| | inhalation vapour | ATE 3 mg/l | | | |
| | inhalation dust/mist | ATE 0.5 mg/l | | | |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 14 of 21

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; Propylidynetrimethanol, ethoxylated, esters with acrylic acid; 2-hydroxyethyl methacrylate; Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl] (4-methylphenyl)amino]-; Cobalt bis(2-ethylhexanoate))

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause respiratory irritation. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methacrylic acid; 2-methylpropenoic acid)

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.

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

May be harmful if swallowed, in contact with skin or if inhaled.

11.2. Information on other hazards

Further information

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

SECTION 12: Ecological information

12.1. Toxicity

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 15 of 21

| CAS No | Chemical name | | | | | |
|------------|--|-------------------|-----------|--------------------------|----------------------------|--------------------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 80-62-6 | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | | | | | |
| | Acute fish toxicity | LC50 > 79 mg/l | 96 h | Oncorhynchus mykiss | REACH Registration Dossier | EPA OTS 797.1400 |
| | Acute algae toxicity | ErC50 > 110 mg/l | 72 h | Raphidocelis subcapitata | REACH Registration Dossier | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 69 mg/l | 48 h | Daphnia magna | REACH Registration Dossier | EPA OTS 797.1300 |
| | Fish toxicity | NOEC 9,4 mg/l | 35 d | Danio rerio | REACH Registration Dossier | OECD Guideline 210 |
| | Crustacea toxicity | NOEC 37 mg/l | 21 d | Daphnia magna | REACH Registration Dossier | OECD Guideline 211 |
| | Acute bacteria toxicity | (EC50 3162 mg/l) | 3 h | Activated sludge | Publication (2008) | ISO 8192 |
| 79-41-4 | methacrylic acid; 2-methylpropenoic acid | | | | | |
| | Acute fish toxicity | LC50 85 mg/l | 96 h | Oncorhynchus mykiss | REACH Registration Dossier | EPA OTS 797.1400 |
| | Acute algae toxicity | ErC50 45 mg/l | 72 h | Raphidocelis subcapitata | REACH Registration Dossier | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 > 130 mg/l | 48 h | Daphnia magna | REACH Registration Dossier | EPA OTS 797.1300 |
| | Fish toxicity | NOEC 10 mg/l | 35 d | Danio rerio | REACH Registration Dossier | OECD Guideline 210 |
| | Crustacea toxicity | NOEC 53 mg/l | 21 d | Daphnia magna | REACH Registration Dossier | OECD Guideline 211 |
| | Acute bacteria toxicity | (EC50 13500 mg/l) | 3 h | Activated sludge | Publication (2008) | ISO 8192 |
| 28961-43-5 | Propylidynetrimethanol, ethoxylated, esters with acrylic acid | | | | | |
| | Acute fish toxicity | LC50 1,95 mg/l | 96 h | Danio rerio | REACH Registration Dossier | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 2,2 mg/l | 72 h | Desmodesmus subspicatus | REACH Registration Dossier | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 70,7 mg/l | 48 h | Daphnia magna | REACH Registration Dossier | OECD Guideline 202 |
| 52628-03-2 | 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate | | | | | |
| | Acute fish toxicity | LC50 > 112 mg/l | 96 h | Oncorhynchus mykiss | Study report (2013) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 > 120 mg/l | 72 h | Raphidocelis subcapitata | Study report (2013) | OECD Guideline 201 |
| 868-77-9 | 2-hydroxyethyl methacrylate | | | | | |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 16 of 21

| | | | | | | | |
|----------|--|----------------|----------|------|---|--|--|
| | Acute fish toxicity | LC50 | 227 mg/l | 96 h | Pimephales promelas | Pre-supplier/manu facturer | |
| | Acute crustacea toxicity | EC50 mg/l | >380 | 48 h | Daphnia magna (Big water flea) | Pre-supplier/manu facturer | |
| | 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 | Cyprinus carpio | REACH Registration Dossier | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 mg/l | > 100 | 72 h | Raphidocelis subcapitata | REACH Registration Dossier | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 | 48 mg/l | 48 h | Daphnia magna | REACH Registration Dossier | OECD Guideline 202 |
| | Acute bacteria toxicity | (EC50 mg/l) | > 1000 | 3 h | activated sludge of a predominantly domestic sewage | REACH Registration Dossier | OECD Guideline 209 |
| 136-52-7 | Cobalt bis(2-ethylhexanoate) | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 54.1 | 96 h | Pimephales promelas | Study report (2009) | other: ASTM guideline |
| | Acute algae toxicity | ErC50 mg/l | 71.314 | 96 h | Dunaliella tertiolecta | Study report (2010) | other: American Society for Testing and |
| | Acute crustacea toxicity | EC50 mg/l | 42.7 | 48 h | Aeolosoma sp. | Study report (2008) | Newman, J.P., Jr. 1975. The effects of h |
| | Fish toxicity | NOEC mg/l | 0.21 | 34 d | Pimephales promelas | Study report (2009) | other: This study was conducted accordin |
| | Algae toxicity | NOEC mg/l | 0.0018 | 7 d | Champia parvula | Study report - model refit from original | other: EPA 821-R- 02-014, Method 1009.0 |
| | Crustacea toxicity | NOEC mg/l | 0.1697 | 14 d | Aeolosoma sp. | Study report (2008) | other: Newman, J.P., Jr. 1975. The effec |
| | Acute bacteria toxicity | (EC50 mg/l) | 120 | | Activated sludge | Study report (2010) | OECD Guideline 209 |
| 91-66-7 | N,N-diethylaniline | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 42,25 | 96 h | Danio rerio | REACH Registration Dossier | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 mg/l | 7,42 | 72 h | Desmodesmus subspicatus | REACH Registration Dossier | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 mg/l | 35,2 | 48 h | Daphnia magna | REACH Registration Dossier | OECD Guideline 202 |
| | Crustacea toxicity | NOEC mg/l | 0,936 | 21 d | Daphnia magna | REACH Registration Dossier | other: modelling data |

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 17 of 21

No data available

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|---|------------|
| 80-62-6 | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | 1,38 |
| 79-41-4 | methacrylic acid; 2-methylpropenoic acid | 0,93 |
| 28961-43-5 | Propylidynetrimethanol, ethoxylated, esters with acrylic acid | 2,89 |
| 52628-03-2 | 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate | 1 - < 2,72 |
| 868-77-9 | 2-hydroxyethyl methacrylate | 0,47 |
| | Reaction mass of 2,2'-(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]- | 2 |
| 136-52-7 | Cobalt bis(2-ethylhexanoate) | 2.96 |
| 91-66-7 | N,N-diethylaniline | 3,904 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|----------|------------------------------|--------------|-----------------|----------------------|
| 136-52-7 | Cobalt bis(2-ethylhexanoate) | 23 | Asterias rubens | Marine Pollution Bul |
| 91-66-7 | N,N-diethylaniline | >= 44 - = 17 | Cyprinus carpio | REACH Registration D |

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

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

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 data 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

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

List of Wastes Code - residues/unused products

080410 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 other than those mentioned in 08 04 09

List of Wastes Code - used product

080410 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 other than those mentioned in 08 04 09

List of Wastes Code - contaminated packaging

080410 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 other than those mentioned in 08 04 09

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 18 of 21

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

UN 3175

14.2. UN proper shipping name:

SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Bisphenol A polyethylene glycol diether dimethacrylate)

14.3. Transport hazard class(es):

4.1

14.4. Packing group:

II

Hazard label:

4.1



Classification code:

F1

Special Provisions:

216 274 601

Limited quantity:

1 kg

Excepted quantity:

E2

Transport category:

2

Hazard No:

40

Tunnel restriction code:

E

Inland waterways transport (ADN)

14.1. UN number or ID number:

UN 3175

14.2. UN proper shipping name:

SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Bisphenol A polyethylene glycol diether dimethacrylate)

14.3. Transport hazard class(es):

4.1

14.4. Packing group:

II

Hazard label:

4.1



Classification code:

F1

Special Provisions:

216 274 601 800

Limited quantity:

1 kg

Excepted quantity:

E2

Marine transport (IMDG)

14.1. UN number or ID number:

UN 3175

14.2. UN proper shipping name:

SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Bisphenol A polyethylene glycol diether dimethacrylate)

14.3. Transport hazard class(es):

4.1

14.4. Packing group:

II

Hazard label:

4.1



Special Provisions:

216 274

Limited quantity:

1 kg

Excepted quantity:

E2

EmS:

F-A, S-I

Air transport (ICAO-TI/IATA-DGR)

Safety Data Sheet


according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 19 of 21

| | |
|---|---|
| 14.1. UN number or ID number: | UN 3175 |
| 14.2. UN proper shipping name: | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Bisphenol A polyethylene glycol diether dimethacrylate) |
| 14.3. Transport hazard class(es): | 4.1 |
| 14.4. Packing group: | II |
| Hazard label: | 4.1 |
| |  |
| Special Provisions: | A46 |
| Limited quantity Passenger: | 5 kg |
| Passenger LQ: | Y441 |
| Excepted quantity: | E2 |
| IATA-packing instructions - Passenger: | 445 |
| IATA-max. quantity - Passenger: | 15 kg |
| IATA-packing instructions - Cargo: | 448 |
| IATA-max. quantity - Cargo: | 50 kg |

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

2010/75/EU (VOC): 58.765 % (587.645 g/l)

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

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1668 - Component A 1670

Revision date: 08.03.2024

Product code: 1668

Page 20 of 21

Abbreviations and acronyms

CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).
Flam. Liq: Flammable liquid
Flam. Sol: Flammable solid
Acute Tox: Acute toxicity
Skin Corr: Skin corrosion
Skin Irrit: Skin irritation
Eye Dam: Eye damage
Eye Irrit: Eye irritation
Skin Sens: Skin sensitisation
Repr: Reproductive toxicity
STOT SE: Specific target organ toxicity - single exposure
STOT RE: Specific target organ toxicity - repeated exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard

Safety Data Sheet

according to Regulation (EC) No 1907/2006

| | | |
|-----------------------------------|--------------------|---------------|
| Kisling - 1668 - Component A 1670 | | |
| Revision date: 08.03.2024 | Product code: 1668 | Page 21 of 21 |

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| | |
|---------------------|--------------------------|
| Classification | Classification procedure |
| Flam. Sol. 1; H228 | On basis of test data |
| Skin Irrit. 2; H315 | Calculation method |
| Eye Dam. 1; H318 | Calculation method |
| Skin Sens. 1; H317 | Calculation method |
| STOT SE 3; H335 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|-------|--|
| H225 | Highly flammable liquid and vapour. |
| H228 | Flammable solid. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H361f | Suspected of damaging fertility. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. 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.

Identified uses

| No | Short title | LCS | SU | PC | PROC | ERC | AC | TF | Specification |
|----|------------------------|-------|--------------------|----|--------|---------------|---------------------------------------|-----|---------------|
| 1 | Adhesives and sealants | PW, C | 6a, 6b, 12, 18, 19 | 1 | 11, 19 | 4, 8a, 8c, 8d | 4e, 4g, 5c, 6g, 7c, 7g, 8, 10, 11, 13 | 110 | K+D |

| | |
|---------------------------------------|--------------------------|
| LCS: Life cycle stages | SU: Sectors of use |
| PC: Product categories | PROC: Process categories |
| ERC: Environmental release categories | AC: Article categories |
| TF: Technical functions | |

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