

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 1 of 20

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

1.1. Product identifier

Kisling - 1319 - Component B 1320

UFI: M8N3-S05U-W005-AFJ2

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 | |
| Contact person: | Product Compliance | Telephone: +49 7940 5096 143 |
| E-mail: | compliance@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: | Product Compliance | 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

Repr. 2; H361d
Skin Irrit. 2; H315
Eye Dam. 1; H318
Skin Sens. 1; H317
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

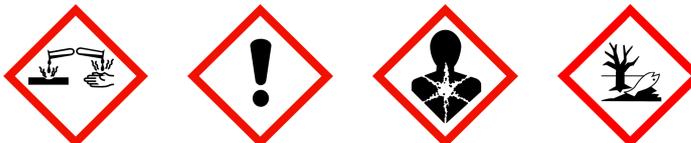
Page 2 of 20

Hazard components for labelling

2-hydroxyethyl methacrylate
2-phenoxyethyl methacrylate
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide
mequinol; 4-methoxyphenol; hydroquinone monomethyl ether
Phenothiazine

Signal word: Danger

Pictograms:



Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H361d Suspected of damaging the unborn child.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P280 Wear protective gloves and eye protection/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.
P391 Collect spillage.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:



Hazard statements

H317-H318-H361d

Precautionary statements

P280-P305+P351+P338-P310

2.3. Other hazards

No data 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 - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 3 of 20

Relevant ingredients

| CAS No | Chemical name | | | Quantity |
|--------------|---|--------------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 868-77-9 | 2-hydroxyethyl methacrylate | | | 30 - < 50 % |
| | 212-782-2 | 607-124-00-X | 01-2119490169-29 | |
| | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317 | | | |
| 10595-06-9 | 2-phenoxyethyl methacrylate | | | 15 - < 30 % |
| | 234-201-1 | | 01-2120752383-55 | |
| | Repr. 2, Skin Sens. 1, Aquatic Chronic 2; H361d H317 H411 | | | |
| 1187441-10-6 | 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide | | | 1 - < 5 % |
| | 810-703-1 | | 01-2120140608-57 | |
| | Eye Dam. 1, Skin Sens. 1; H318 H317 | | | |
| 150-76-5 | mequinol; 4-methoxyphenol; hydroquinone monomethyl ether | | | 0.1 - < 1 % |
| | 205-769-8 | 604-044-00-7 | | |
| | Acute Tox. 4, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H302 H319 H317 H412 | | | |
| 99-97-8 | N,N-dimethyl-p-toluidine | | | 0.1 - < 1 % |
| | 202-805-4 | 612-056-00-9 | 01-2119956633-31 | |
| | Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Chronic 3; H331 H311 H301 H373 H412 | | | |
| 92-84-2 | Phenothiazine | | | 0.1 - < 1 % |
| | 202-196-5 | | 01-2119488529-19 | |
| | Acute Tox. 4, Skin Sens. 1, STOT RE 2, Aquatic Chronic 1; H302 H317 H373 H410 | | | |
| 26741-53-7 | 3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane | | | 0.1 - < 1 % |
| | 247-952-5 | | | |
| | Aquatic Chronic 1; H410 | | | |
| 123-31-9 | 1,4-dihydroxybenzene; hydroquinone; quinol | | | < 0.1 % |
| | 204-617-8 | 604-005-00-4 | 01-2119524016-51 | |
| | Carc. 2, Muta. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1B, Aquatic Acute 1, Aquatic Chronic 1; H351 H341 H302 H318 H317 H400 H410 | | | |

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 4 of 20

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|--------------|-----------|---|-------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 868-77-9 | 212-782-2 | 2-hydroxyethyl methacrylate | 30 - < 50 % |
| | | oral: LD50 = 5050 mg/kg | |
| 1187441-10-6 | 810-703-1 | 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide | 1 - < 5 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg | |
| 150-76-5 | 205-769-8 | mequinol; 4-methoxyphenol; hydroquinone monomethyl ether | 0.1 - < 1 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: ATE = 500 mg/kg | |
| 99-97-8 | 202-805-4 | N,N-dimethyl-p-toluidine | 0.1 - < 1 % |
| | | inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0.5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: ATE = 100 mg/kg | |
| 92-84-2 | 202-196-5 | Phenothiazine | 0.1 - < 1 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1370 mg/kg | |
| 26741-53-7 | 247-952-5 | 3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane | 0.1 - < 1 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg Aquatic Chronic 1; H410: M=1 | |
| 123-31-9 | 204-617-8 | 1,4-dihydroxybenzene; hydroquinone; quinol | < 0.1 % |
| | | oral: LD50 = 302 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1 | |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No special measures are necessary.

After inhalation

Provide fresh air.

After contact with skin

Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. IF SWALLOWED: Immediately call a doctor.

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

Irritant — skin irritation and eye damage
May cause respiratory irritation. Dyspnoea.

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

alcohol resistant foam, Carbon dioxide (CO₂), Dry extinguishing powder

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products, Flammable vapours can accumulate in steam space of closed systems.

5.3. Advice for firefighters

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 5 of 20

Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers. Evacuate area.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Use personal protection equipment. See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers). Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

For cleaning up

Soak up inert absorbent and dispose as waste requiring special attention.

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 in well-ventilated areas. Keep away from sources of ignition - No smoking.

Avoid contact with skin, eyes and clothes. People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

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.

Never use pressure to empty container. Do not allow to enter into surface water or drains.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

Hints on joint storage

No special measures are necessary.

Further information on storage conditions

No special measures are necessary.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 6 of 20

DNEL/DMEL values

| CAS No | Name of agent | Exposure route | Effect | Value |
|--------------------------|--|----------------|----------|-------------------------|
| 10595-06-9 | 2-phenoxyethyl methacrylate | | | |
| Worker DNEL, long-term | | inhalation | systemic | 12 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 84 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 3,5 mg/kg bw/day |
| 1187441-10-6 | 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide | | | |
| Worker DNEL, long-term | | inhalation | systemic | 7.05 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 1 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 3.53 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 0.5 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0.5 mg/kg bw/day |
| 150-76-5 | mequinol; 4-methoxyphenol; hydroquinone monomethyl ether | | | |
| Worker DNEL, long-term | | inhalation | systemic | 3 mg/m ³ |
| 99-97-8 | N,N-dimethyl-p-toluidine | | | |
| Worker DNEL, long-term | | inhalation | systemic | 0,128 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 0,624 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 0,336 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 0,223 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,02 mg/kg bw/day |
| 92-84-2 | Phenothiazine | | | |
| Worker DNEL, long-term | | inhalation | systemic | 0,53 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | systemic | 0,13 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 0,15 mg/kg bw/day |
| Worker DNEL, acute | | inhalation | systemic | 1,59 mg/m ³ |
| Consumer DNEL, acute | | inhalation | systemic | 0,39 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 0,08 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,08 mg/kg bw/day |
| Consumer DNEL, acute | | oral | systemic | 0,24 mg/kg bw/day |
| 26741-53-7 | 3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane | | | |
| Worker DNEL, long-term | | inhalation | systemic | 2,75 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 0,78 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 0,68 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 0,39 mg/kg bw/day |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 7 of 20

| | | | |
|--------------------------|--|----------|------------------------|
| Consumer DNEL, long-term | oral | systemic | 0,39 mg/kg bw/day |
| 123-31-9 | 1,4-dihydroxybenzene; hydroquinone; quinol | | |
| Worker DNEL, long-term | inhalation | systemic | 2,1 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 3,33 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 1,05 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 1,66 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 0,6 mg/kg bw/day |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 8 of 20

PNEC values

| CAS No | Name of agent | Value |
|--|--|--------------|
| Environmental compartment | | Value |
| 10595-06-9 | 2-phenoxyethyl methacrylate | |
| Freshwater | | 0,0142 mg/l |
| Freshwater (intermittent releases) | | 0,012 mg/l |
| Marine water | | 0,00142 mg/l |
| Freshwater sediment | | 0,665 mg/kg |
| Marine sediment | | 0,067 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 1,77 mg/l |
| Soil | | 0,125 mg/kg |
| 1187441-10-6 | 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide | |
| Freshwater | | 0.165 mg/l |
| Freshwater (intermittent releases) | | 1.65 mg/l |
| Marine water | | 0.017 mg/l |
| Freshwater sediment | | 2.8 mg/kg |
| Marine sediment | | 0.28 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 0.4 mg/l |
| Soil | | 0.46 mg/kg |
| 150-76-5 | mequinol; 4-methoxyphenol; hydroquinone monomethyl ether | |
| Freshwater | | 0,014 mg/l |
| Marine water | | 0,001 mg/l |
| Freshwater sediment | | 0,125 mg/kg |
| Marine sediment | | 0,013 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |
| Soil | | 0,017 mg/kg |
| 99-97-8 | N,N-dimethyl-p-toluidine | |
| Freshwater | | 0,153 mg/l |
| Freshwater (intermittent releases) | | 0,153 mg/l |
| Marine water | | 0,015 mg/l |
| Freshwater sediment | | 45,378 mg/kg |
| Marine sediment | | 45,378 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 4,286 mg/l |
| Soil | | 18,677 mg/kg |
| 92-84-2 | Phenothiazine | |
| Freshwater | | 0 mg/l |
| Freshwater (intermittent releases) | | 0,002 mg/l |
| Marine water | | 0 mg/l |
| Freshwater sediment | | 0,019 mg/kg |
| Marine sediment | | 0,002 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 0,054 mg/l |
| Soil | | 0,023 mg/kg |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 9 of 20

| | | |
|--|---|---------------|
| 26741-53-7 | 3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane | |
| Freshwater | | 0,002 mg/l |
| Freshwater (intermittent releases) | | 0,707 mg/l |
| Marine water | | 0 mg/l |
| Freshwater sediment | | 2000000 mg/kg |
| Marine sediment | | 200000 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 42 mg/l |
| Soil | | 1 mg/kg |
| 123-31-9 | 1,4-dihydroxybenzene; hydroquinone; quinol | |
| Freshwater | | 0,00057 mg/l |
| Freshwater (intermittent releases) | | 0,00134 mg/l |
| Marine water | | 0,000057 mg/l |
| Freshwater sediment | | 0,0049 mg/kg |
| Marine sediment | | 0,00049 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 0,71 mg/l |
| Soil | | 0,00064 mg/kg |

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

Wear protective gloves.

Breakthrough times and swelling properties of the material must be taken into consideration.

NBR (Nitrile rubber) 0,4 mm, Breakthrough time: 480 min

EN ISO 374

Skin protection

Avoid contact with skin, eyes and clothes.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|----------------|
| Physical state: | Liquid |
| Colour: | black |
| Odour: | characteristic |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 10 of 20

Odour threshold: not determined

Melting point/freezing point:

not determined

Boiling point or initial boiling point and boiling range:

>35 °C

Flammability:

not applicable

Lower explosion limits:

not determined

Upper explosion limits:

not determined

Flash point:

>100 °C

Auto-ignition temperature:

not determined

Decomposition temperature:

not determined Test Series H, part II,28

pH-Value:

not determined

Viscosity / kinematic:

not determined

Water solubility:

not determined

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

not determined

Vapour pressure:

not determined

Density (at 20 °C):

1,06 g/cm³

Relative density:

not determined

Relative vapour density:

not determined

Particle characteristics:

Polymer preparations and compounds
Particle size < 5 mm

Test method

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

not determined

Other safety characteristics

Evaporation rate:

not determined

Solid content:

not determined

Viscosity / dynamic:

not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No known hazardous reactions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Thermal decomposition can lead to the escape of irritating gases and vapours.

Vapours can form explosive mixtures with air.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 11 of 20

Further information

No data available

SECTION 11: Toxicological information

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) > 5000 mg/kg; ATE (dermal) > 5000 mg/kg; ATE (inhalation vapour) > 50 mg/l; ATE (inhalation dust/mist) > 12.5 mg/l

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 12 of 20

| CAS No | Chemical name | | | | |
|--------------|--|----------------------|---------|----------------------------|---|
| | Exposure route | Dose | Species | Source | Method |
| 868-77-9 | 2-hydroxyethyl methacrylate | | | | |
| | oral | LD50 5050 mg/kg | Rat | | |
| 1187441-10-6 | 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | Study report (2004) | OECD Guideline 423 |
| | dermal | LD50 > 2000 mg/kg | Rat | REACH Registration Dossier | OECD Guideline 423 |
| 150-76-5 | mequinol; 4-methoxyphenol; hydroquinone monomethyl ether | | | | |
| | oral | ATE 500 mg/kg | | | |
| | dermal | LD50 > 2000 mg/kg | Rat | Study report (2008) | EU Method B.3 |
| 99-97-8 | N,N-dimethyl-p-toluidine | | | | |
| | oral | ATE 100 mg/kg | | | |
| | dermal | ATE 300 mg/kg | | | |
| | inhalation vapour | ATE 3 mg/l | | | |
| | inhalation dust/mist | ATE 0.5 mg/l | | | |
| 92-84-2 | Phenothiazine | | | | |
| | oral | LD50 1370 mg/kg | Rat | Study report (1977) | other: As outlined in "Appraisal of the |
| | dermal | LD50 > 2000 mg/kg | Rat | Study report (2010) | OECD Guideline 402 |
| 26741-53-7 | 3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | Study report (1984) | OECD Guideline 401 |
| | dermal | LD50 > 2000 mg/kg | Rabbit | Study report (1994) | OECD Guideline 402 |
| 123-31-9 | 1,4-dihydroxybenzene; hydroquinone; quinol | | | | |
| | oral | LD50 302 mg/kg | Rat | IUCLID | |

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (2-hydroxyethyl methacrylate; 2-phenoxyethyl methacrylate; 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide; mequinol; 4-methoxyphenol; hydroquinone monomethyl ether; Phenothiazine; 1,4-dihydroxybenzene; hydroquinone; quinol)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging the unborn child. (2-phenoxyethyl methacrylate)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 13 of 20

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.

Information on likely routes of exposure

No data available

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

Other information

No data available

Further information

No data available

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 14 of 20

| CAS No | Chemical name | | | | | |
|--------------|--|-------------------|-----------|--|---|--|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 868-77-9 | 2-hydroxyethyl methacrylate | | | | | |
| | Acute fish toxicity | LC50 227 mg/l | 96 h | Pimephales promelas | | |
| 10595-06-9 | 2-phenoxyethyl methacrylate | | | | | |
| | Acute algae toxicity | ErC50 4,4 mg/l | 72 h | Desmodesmus subspicatus | REACH Registration Dossier | ISO 8692 |
| | Acute bacteria toxicity | EC50 () 177 mg/l | 3 h | Activated sludge | REACH Registration Dossier | ISO 8192 |
| 1187441-10-6 | 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide | | | | | |
| | Acute fish toxicity | LC50 mg/l > 100 | 96 h | Cyprinus carpio | REACH Registration Dossier | EU Method C.1 |
| | Acute algae toxicity | ErC50 90 mg/l | 72 h | Selenastrum capricornutum, strain: NIVA CHL 1. | REACH Registration Dossier | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 mg/l > 100 | 48 h | Daphnia magna | REACH Registration Dossier | OECD Guideline 202 |
| 150-76-5 | mequinol; 4-methoxyphenol; hydroquinone monomethyl ether | | | | | |
| | Acute bacteria toxicity | EC50 () 4,6 mg/l | 0.5 h | Photobacterium phosphoreum | Chemosphere, 12(11/12), 1421-1442. (1983) | other: microtox test |
| 99-97-8 | N,N-dimethyl-p-toluidine | | | | | |
| | Acute fish toxicity | LC50 mg/l 52,8 | 96 h | Pimephales promelas | REACH Registration Dossier | other: Standard test procedure ASTM, 198 |
| | Acute algae toxicity | ErC50 mg/l 23,69 | 72 h | Raphidocelis subcapitata | REACH Registration Dossier | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 mg/l 15,27 | 48 h | Daphnia magna | REACH Registration Dossier | other: Modeling database |
| | Acute bacteria toxicity | EC50 () 100 mg/l | 3 h | WoE 2. domestic activated sludge, WoE 3. Pseudomon | REACH Registration Dossier | other: as mentioned below |
| 92-84-2 | Phenothiazine | | | | | |
| | Acute fish toxicity | LC50 mg/l 70,7 | 96 h | Oncorhynchus mykiss | Study report (2010) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 mg/l > 100 | 72 h | Desmodesmus subspicatus | Study report (2010) | OECD Guideline 201 |
| 26741-53-7 | 3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane | | | | | |
| | Acute fish toxicity | LC50 mg/l 70,7 | 96 h | Danio rerio | Study report (2013) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 97 mg/l | 72 h | Desmodesmus subspicatus | Study report (2013) | OECD Guideline 201 |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 15 of 20

| | | | | | | | |
|--|-------------------------|---------------|----------|------|----------------------------|---------------------|--------------------|
| | Crustacea toxicity | NOEC | 0,1 mg/l | 21 d | Daphnia magna | Study report (2013) | OECD Guideline 211 |
| | Acute bacteria toxicity | EC50 mg/l () | > 1000 | 3 h | activated sludge, domestic | Study report (2012) | OECD Guideline 209 |

12.2. Persistence and degradability

No data available

| CAS No | Chemical name | | | |
|------------|---|-------|----|----------------------------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 26741-53-7 | 3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane | | | |
| | Activated sludge, Concentration: 31 mg/l/l | <10% | 28 | Pre-supplier/manufactur er |
| | Not readily biodegradable (according to OECD criteria) | | | |

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|--------------|--|----------|
| 868-77-9 | 2-hydroxyethyl methacrylate | 0,47 |
| 10595-06-9 | 2-phenoxyethyl methacrylate | 3,137 |
| 1187441-10-6 | 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide | >= 0.3 |
| 150-76-5 | mequinol; 4-methoxyphenol; hydroquinone monomethyl ether | 1,62 |
| 99-97-8 | N,N-dimethyl-p-toluidine | 2,81 |
| 92-84-2 | Phenothiazine | ca. 3,78 |
| 26741-53-7 | 3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane | 10,9 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|------------|---|--------|-----------------|----------------------|
| 99-97-8 | N,N-dimethyl-p-toluidine | 33 | Fish | REACH Registration D |
| 92-84-2 | Phenothiazine | >= 310 | Cyprinus carpio | Study report (1983) |
| 26741-53-7 | 3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane | 0,89 | | SAR and QSAR in Envi |

12.4. Mobility in soil

No data 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.

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 16 of 20

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

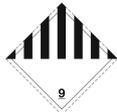
080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or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

Contaminated packaging

Completely emptied packages can be recycled. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|--|---|
| 14.1. UN number or ID number: | UN 3082 |
| 14.2. UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenoxyethyl methacrylate) |
| 14.3. Transport hazard class(es): | 9 |
| 14.4. Packing group: | III |
| Hazard label: | 9 |
| |  |
| Classification code: | M6 |
| Special Provisions: | 274 335 375 601 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| Transport category: | 3 |
| Hazard No: | 90 |
| Tunnel restriction code: | - |

Inland waterways transport (ADN)

| | |
|--|---|
| 14.1. UN number or ID number: | UN 3082 |
| 14.2. UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenoxyethyl methacrylate) |
| 14.3. Transport hazard class(es): | 9 |
| 14.4. Packing group: | III |
| Hazard label: | 9 |
| |  |
| Classification code: | M6 |
| Special Provisions: | 274 335 375 601 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

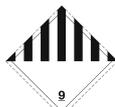
Revision date: 21.03.2025

Product code: 1319

Page 17 of 20

Marine transport (IMDG)

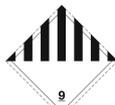
14.1. UN number or ID number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenoxyethyl methacrylate)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
 Hazard label: 9



Special Provisions: 274 335 969
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenoxyethyl methacrylate)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
 Hazard label: 9



Special Provisions: A97 A158 A197 A215
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y964
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 964
 IATA-max. quantity - Passenger: 450 L
 IATA-packing instructions - Cargo: 964
 IATA-max. quantity - Cargo: 450 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: Phenoxyethyl methacrylate

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other applicable information

ADR: 375: These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IMDG: 2.10.2.7: Marine pollutants in individual packaging or composite packaging with a net quantity per individual or inner packaging of no more than 5 L for liquids or a net mass per individual or inner packaging of no

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 18 of 20

more than 5 kg for solids are not subject to any other provisions of this Code applicable to marine pollutants, provided that the packaging complies with the general Meet the requirements in 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants that also meet the criteria for inclusion in another class, all provisions of this Code that apply to any further hazards continue to apply.

IATA: A197 (375): These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8

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 3, Entry 75

Directive 2010/75/EU on industrial emissions: 31.234 % (331.084 g/l)

Information according to Directive 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

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.

Water hazard class (D): 2 - obviously hazardous to water

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 - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 19 of 20

Abbreviations and acronyms

Acute Tox: Acute toxicity
Skin Irrit: Skin irritation
Eye Dam: Eye damage
Eye Irrit: Eye irritation
Skin Sens: Skin sensitisation
Muta: Germ cell mutagenicity
Carc: Carcinogenicity
Repr: Reproductive toxicity
STOT RE: Specific target organ toxicity - repeated exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard
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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1319 - Component B 1320

Revision date: 21.03.2025

Product code: 1319

Page 20 of 20

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

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Repr. 2; H361d | Calculation method |
| Skin Irrit. 2; H315 | Calculation method |
| Eye Dam. 1; H318 | Calculation method |
| Skin Sens. 1; H317 | Calculation method |
| Aquatic Chronic 2; H411 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|-------|--|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| 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. |
| H341 | Suspected of causing genetic defects. |
| H351 | Suspected of causing cancer. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)