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

### 1.1. Product identifier

Jokisch Migma Tano DSG

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

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

| | |
|---|---|
| Company name: | JOKOBA Technologies GmbH<br>Germany |
| Street: | Industriestraße 5-10 |
| Place: | D-33813 Oerlinghausen |
| Telephone: | +49(0)5202/9734-0 |
| E-mail: | info@jokoba.de |
| Contact person: | Regulatory affairs |
| E-mail: | MSDS@jokoba.de |
| Internet: | www.jokisch-fluids.de |

### 1.4. Emergency telephone number:

Emergency telephone number (24h) +1 872 5888271 (JRR) (en)

**Further Information**

Reserved for industrial and professional use.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Regulation (EC) No 1272/2008**

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

**Regulation (EC) No 1272/2008**

**Hazard statements**

| | |
|---|---|
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, 2-methylisothiazol-3(2H)-one. May produce an allergic reaction. |

**Precautionary statements**

| | |
|---|---|
| P273 | Avoid release to the environment. |
| P501 | Dispose of contents/container to an appropriate recycling or disposal facility. |

### 2.3. Other hazards

Avoid release to the environment.

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Relevant ingredients**

| CAS No | Chemical name | | | Quantity |
|---|---|---|---|---|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 64742-56-9 | Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified | | | 10 - < 15 % |
| | 265-159-2 | | 01-2119480132-48 | |
| | Asp. Tox. 1; H304 | | | |
| 770-35-4 | 1-phenoxypropan-2-ol | | | 5 - < 10 % |
| | 212-222-7 | | 01-2119486566-23 | |
| | Eye Irrit. 2; H319 | | | |
| 68511-37-5 | Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-,mono-C12-14-alkyl ethers, phosphates | | | 1 - < 2.5 % |
| | 614-543-1 | | | |
| | Skin Irrit. 2; H315 | | | |
| 68608-26-4 | Sulfonic acids, petroleum, sodium salts | | | 1 - < 2.5 % |
| | 271-781-5 | | 01-2119527859-22 | |
| | Eye Irrit. 2; H319 | | | |
| 90-43-7 | 2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl | | | 0.1 - < 1 % |
| | 201-993-5 | | 01-2119511183-53 | |
| | Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H315 H319 H335 H400 H410 | | | |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | | | 0.1 - < 1 % |
| | 203-961-6 | | 01-2119475104-44 | |
| | Eye Irrit. 2; H319 | | | |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | | | < 0.1 % |
| | 220-120-9 | 613-088-00-6 | | |
| | Acute Tox. 2, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H302 H315 H318 H317 H400 H410 | | | |
| 141-43-5 | 2-aminoethanol; ethanolamine | | | < 0.1 % |
| | 205-483-3 | 603-030-00-8 | 01-2119486455-28 | |
| | Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, STOT SE 3, Aquatic Chronic 3; H332 H312 H302 H314 H318 H317 H335 H412 | | | |
| 2682-20-4 | 2-methylisothiazol-3(2H)-one | | | < 0.0015 % |
| | 220-239-6 | | 01-2120764690-50 | |
| | Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H301 H314 H318 H317 H400 H410 EUH071 | | | |

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 | | |
| 64742-56-9 | 265-159-2 | Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified | 10 - < 15 % |
| | oral: LD50 = 5000 mg/kg | | |
| 770-35-4 | 212-222-7 | 1-phenoxypropan-2-ol | 5 - < 10 % |
| | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg | | |
| 68511-37-5 | 614-543-1 | Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-,mono-C12-14-alkyl ethers, phosphates | 1 - < 2.5 % |
| | oral: LD50 = >2000 mg/kg | | |
| 68608-26-4 | 271-781-5 | Sulfonic acids, petroleum, sodium salts | 1 - < 2.5 % |
| | dermal: LD50 = > 5001 mg/kg; oral: LD50 = > 5001 mg/kg | | |
| 90-43-7 | 201-993-5 | 2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl | 0.1 - < 1 % |
| | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 2733 mg/kg | | |
| 112-34-5 | 203-961-6 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | 0.1 - < 1 % |
| | dermal: LD50 = 2764 mg/kg; oral: LD50 = 3305 mg/kg | | |
| 2634-33-5 | 220-120-9 | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | < 0.1 % |
| | inhalation: ATE 0,21 mg/l (dusts or mists); dermal: LD50 = > 2001 mg/kg; oral: ATE 450 mg/kg<br>Skin Sens. 1A; H317: >= 0,036 - 100<br>Aquatic Acute 1; H400: M=1<br>Aquatic Chronic 1; H410: M=1 | | |
| 141-43-5 | 205-483-3 | 2-aminoethanol; ethanolamine | < 0.1 % |
| | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 1025 mg/kg; oral: LD50 = 1515 mg/kg STOT SE 3; H335: >= 5 - 100 | | |
| 2682-20-4 | 220-239-6 | 2-methylisothiazol-3(2H)-one | < 0.0015 % |
| | inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = 242 mg/kg; oral: LD50 = 120-249 mg/kg Skin Sens. 1A; H317: >= 0,0015 - 100<br>Aquatic Acute 1; H400: M=10<br>Aquatic Chronic 1; H410: M=1 | | |

**Further Information**

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information**

Seek medical attention if problems persist. No administration in cases of unconsiousness or cramps.

**After inhalation**

Move victim to fresh air. Put victim at rest and keep warm. Call a doctor if you feel unwell.

**After contact with skin**

Remove contaminated, saturated clothing immediately.After contact with skin, wash immediately with plenty of water and soap. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

**After ingestion**

Do NOT induce vomiting.

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

No information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media**

Water fog. Foam. Dry extinguishing powder. Carbon dioxide (CO2).

**Unsuitable extinguishing media**

High power water jet.

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

In case of fire may be liberated:
Nitrogen oxides (NOx).
Carbon monoxide
Carbon dioxide (CO2).

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protective suit.

## SECTION 6: Accidental release measures

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

**General advice**

See protective measures under point 7 and 8.
High slip hazard because of leaking or spilled product. Do not breathe mist/vapours/spray. Provide adequate ventilation.

**For non-emergency personnel**

Take off immediately all contaminated clothing and wash it before reuse.

**For emergency responders**

The danger areas must be delimited and identified using relevant warning and safety signs. Move victim out of danger zone.

### 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).

**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Clean contaminated articles and floor according to the environmental legislation. Clean with detergents. Avoid solvent cleaners.

### 6.4. Reference to other sections

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.
When using do not eat, drink or smoke.

**Further information on handling**

When using do not eat, drink or smoke.
High slip hazard because of leaking or spilled product.

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

**Requirements for storage rooms and vessels**

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.
Recommended storage temperature: 5-40 °C
Maximum period of storage (time): 1 year

**Hints on joint storage**

Keep away from food, drink and animal feedingstuffs.

**7.3. Specific end use(s)**

Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Occupational exposure limits**

| CAS No | Substance | ppm | mg/m³ | fib/cm³ | Category | Origin |
|---|---|---|---|---|---|---|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 10 | 67.5 | | TWA (8 h) | |
| | | 15 | 101.2 | | STEL (15 min) | |
| 141-43-5 | 2-Aminoethanol | 1 | 2.5 | | TWA (8 h) | |
| | | 3 | 7.6 | | STEL (15 min) | |
| 141-43-5 | Ethanolamine (2-Aminoethanol) | 1 | 2.5 | | TWA (8 h) | |
| | | 3 | 7.6 | | STEL (15 min) | |
| 1310-58-3 | Potassium hydroxide | - | 2 | | STEL (15 min) | |
| 1310-73-2 | Sodium hydroxide | - | 2 | | STEL (15 min) | |

**DNEL/DMEL values**

| CAS No | Substance | | | |
|---|---|---|---|---|
| DNEL type | | Exposure route | Effect | Value |
| 64742-56-9 | Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified | | | |
| Worker DNEL, long-term | | inhalation | systemic | 2,73 mg/m³ |
| Worker DNEL, long-term | | inhalation | local | 5,58 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 0,97 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,74 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | local | 1,19 mg/m³ |
| 770-35-4 | 1-phenoxypropan-2-ol | | | |
| Worker DNEL, long-term | | inhalation | systemic | 25,7 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 42 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | systemic | 21 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 3,65 mg/kg bw/day |
| 68608-26-4 | Sulfonic acids, petroleum, sodium salts | | | |
| Worker DNEL, long-term | | inhalation | systemic | 0,66 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 3,33 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 0,33 mg/m³ |
| Consumer DNEL, long-term | | dermal | systemic | 1667 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,833 mg/kg bw/day |
| 90-43-7 | 2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl | | | |
| Worker DNEL, long-term | | inhalation | systemic | 19,25 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 21,84 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 1,2 mg/m³ |
| Consumer DNEL, long-term | | dermal | systemic | 0,4 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,4 mg/kg bw/day |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | | | |
| Worker DNEL, long-term | | dermal | systemic | 83 mg/kg bw/day |
| Consumer DNEL, acute | | inhalation | local | 60,7 mg/m³ |
| Worker DNEL, long-term | | inhalation | local | 67,5 mg/m³ |
| Consumer DNEL, long-term | | inhalation | local | 40,5 mg/m³ |
| Consumer DNEL, long-term | | inhalation | systemic | 40,5 mg/m³ |
| Worker DNEL, long-term | | inhalation | systemic | 67,5 mg/m³ |
| Worker DNEL, acute | | inhalation | local | 101,2 mg/m³ |
| Consumer DNEL, long-term | | dermal | systemic | 50 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 5 mg/kg bw/day |
| 1310-58-3 | potassium hydroxide; caustic potash | | | |
| Worker DNEL, long-term | | inhalation | local | 1 mg/m³ |
| Consumer DNEL, long-term | | inhalation | local | 1 mg/m³ |

| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | | |
|---|---|---|---|
| Worker DNEL, long-term | inhalation | systemic | 6,81 mg/m³ |
| Worker DNEL, long-term | dermal | systemic | 0,966 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 1,2 mg/m³ |
| Consumer DNEL, long-term | dermal | systemic | 0,345 mg/kg bw/day |
| 141-43-5 | 2-aminoethanol; ethanolamine | | |
| Worker DNEL, long-term | inhalation | systemic | 1 mg/m³ |
| Worker DNEL, long-term | inhalation | local | 0,51 mg/m³ |
| Worker DNEL, long-term | dermal | systemic | 3 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 0,18 mg/m³ |
| Consumer DNEL, long-term | inhalation | local | 0,28 mg/m³ |
| Consumer DNEL, long-term | dermal | systemic | 1,5 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 1,5 mg/kg bw/day |
| 1310-73-2 | Sodium hydroxide; caustic soda | | |
| Worker DNEL, long-term | inhalation | local | 1 mg/m³ |
| Consumer DNEL, long-term | inhalation | local | 1 mg/m³ |
| 2682-20-4 | 2-methylisothiazol-3(2H)-one | | |
| Worker DNEL, long-term | inhalation | local | 0,021 mg/m³ |
| Worker DNEL, acute | inhalation | local | 0,043 mg/m³ |
| Consumer DNEL, long-term | inhalation | local | 0,021 mg/m³ |
| Consumer DNEL, acute | inhalation | local | 0,043 mg/m³ |
| Consumer DNEL, long-term | oral | systemic | 0,027 mg/kg bw/day |
| Consumer DNEL, acute | oral | systemic | 0,053 mg/kg bw/day |

**PNEC values**

| CAS No | Substance | |
|---|---|---|
| Environmental compartment | | Value |
| 64742-56-9 | Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified | |
| Secondary poisoning | | 9,33 mg/kg |
| 770-35-4 | 1-phenoxypropan-2-ol | |
| Freshwater | | 0,1 mg/l |
| Marine water | | 0,01 mg/l |
| Freshwater sediment | | 0,38 mg/kg |
| Marine sediment | | 0,038 mg/kg |
| Microorganisms in sewage treatment plants (STP) | | 10 mg/l |
| Soil | | 0,02 mg/kg |
| 68608-26-4 | Sulfonic acids, petroleum, sodium salts | |
| Freshwater | | 1 mg/l |
| Marine water | | 1 mg/l |
| Freshwater sediment | | 723500000 mg/kg |
| Marine sediment | | 723500000 mg/kg |
| Secondary poisoning | | 16667 mg/kg |
| Microorganisms in sewage treatment plants (STP) | | 100 mg/l |
| Soil | | 868700000 mg/kg |
| 90-43-7 | 2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl | |
| Freshwater | | 0,00009 mg/l |
| Marine water | | 0,00009 mg/l |
| Marine water (intermittent releases) | | 0,027 mg/l |
| Freshwater sediment | | 0,1284 mg/kg |
| Marine sediment | | 0,01284 mg/kg |
| Soil | | 2,5 mg/kg |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | |
| Freshwater | | 1,1 mg/l |
| Marine water | | 0,11 mg/l |
| Freshwater sediment | | 4,4 mg/kg |
| Marine sediment | | 0,44 mg/kg |
| Secondary poisoning | | 56 mg/kg |
| Microorganisms in sewage treatment plants (STP) | | 200 mg/l |
| Soil | | 0,4 mg/kg |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | |
| Freshwater | | 4,03 |
| Marine water (intermittent releases) | | 0,403 |
| Freshwater sediment | | 49,9 |
| Marine sediment | | 4,99 |
| Microorganisms in sewage treatment plants (STP) | | 1,03 mg/l |
| Soil | | 3 mg/kg |
| 141-43-5 | 2-aminoethanol; ethanolamine | |

| | |
|---|---|
| Freshwater | 0,07 mg/l |
| Marine water | 0,007 mg/l |
| Freshwater sediment | 0,357 mg/kg |
| Marine sediment | 0,036 mg/kg |
| Microorganisms in sewage treatment plants (STP) | 100 mg/l |
| Soil | 1,29 mg/kg |
| 2682-20-4 | 2-methylisothiazol-3(2H)-one |
| Freshwater | 0,00339 mg/l |
| Marine water | 0,00339 mg/l |
| Microorganisms in sewage treatment plants (STP) | 0,23 mg/l |
| Soil | 0,047 mg/kg |

### 8.2. Exposure controls



**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

EN 166

**Hand protection**

Protect skin by using skin protective cream.
Wash hands before breaks and after work.
Gloves of appropriate material (i.e. nitrilic rubber, specification: penetration time: level 6, >480 min., thickness 0,9-1 mm; CE-certified acc. EN 374 cat III)

**Skin protection**

Chemical resistant safety shoes.
Take off immediately all contaminated clothing.
Thorough skin-cleansing after handling the product.
Set out skin protection guidelines.

**Respiratory protection**

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Thermal hazards**

Remove all sources of ignition.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| Physical state: | liquid |
| Colour: | light brown |
| Odour: | characteristic |

| | | Test method |
|---|---|---|
| Boiling point or initial boiling point and boiling range: | not determined | |
| Lower explosion limits: | not determined | |
| Upper explosion limits: | not determined | |
| Flash point: | not applicable | |
| Auto-ignition temperature: | not determined | |
| pH-Value (at 20 °C): | 8,9 | DIN 51369 |

| | | |
|---|---|---|
| Viscosity / kinematic: (at 20 °C) | 58 mm²/s | ASTM D 7042 |
| Vapour pressure: | not determined | |
| Vapour pressure: | not determined | |
| Density (at 20 °C): | 0,99 g/cm³ | EN ISO 12185 |

**9.2. Other information**

**Other safety characteristics**

| | |
|---|---|
| Pour point: | not determined |
| Viscosity / dynamic: | not determined |

**Further Information**

Refraktometer 1,8

## 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 chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

Protect against: heat.

**10.5. Incompatible materials**

The following must be prevented: Oxidizing agents, strong. acid.

**10.6. Hazardous decomposition products**

Hazardous decomposition products: none

## SECTION 11: Toxicological information

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

**Acute toxicity**

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

**ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No | Chemical name | | | | |
|---|---|---|---|---|---|
| | Exposure route | Dose | Species | Source | Method |
| 64742-56-9 | Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified | | | | |
| | oral | LD50 5000 mg/kg | Rat | ECHA | OECD Guideline 420 |
| 770-35-4 | 1-phenoxypropan-2-ol | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | | OECD 401 |
| | dermal | LD50 > 2000 mg/kg | Rabbit | | OECD 402 |
| 68511-37-5 | Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-,mono-C12-14-alkyl ethers, phosphates | | | | |
| | oral | LD50 >2000 mg/kg | Rat | | OECD 401 |
| 68608-26-4 | Sulfonic acids, petroleum, sodium salts | | | | |
| | oral | LD50 > 5001 mg/kg | Rat | Echa | OECD Guideline 401 |
| | dermal | LD50 > 5001 mg/kg | Rat | Echa | OECD Guideline 402 |
| 90-43-7 | 2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl | | | | |
| | oral | LD50 2733 mg/kg | Rat | | OECD 401 |
| | dermal | LD50 > 2000 mg/kg | Rabbit | | OECD 402 |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | | | | |
| | oral | LD50 3305 mg/kg | Rat | | |
| | dermal | LD50 2764 mg/kg | Rabit | | |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | | | | |
| | oral | ATE 450 mg/kg | | | |
| | dermal | LD50 > 2001 mg/kg | Rat | | |
| | inhalation dust/mist | ATE 0,21 mg/l | | | |
| 141-43-5 | 2-aminoethanol; ethanolamine | | | | |
| | oral | LD50 1515 mg/kg | Rat | | |
| | dermal | LD50 1025 mg/kg | Rabbit | IUCLID | |
| | inhalation vapour | ATE 11 mg/l | | | |
| | inhalation dust/mist | ATE 1,5 mg/l | | | |
| 2682-20-4 | 2-methylisothiazol-3(2H)-one | | | | |
| | oral | LD50 120-249 mg/kg | Rat | ECHA | EPA OPPTS 870.1100 |
| | dermal | LD50 242 mg/kg | Rat | ECHA | Standard acute method |
| | inhalation vapour | ATE 0,5 mg/l | | | |
| | inhalation dust/mist | ATE 0,05 mg/l | | | |

**Irritation and corrosivity**

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

**Sensitising effects**

Based on available data, the classification criteria are not met.
Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**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.

**Additional information on tests**

No risks worthy of mention. Practical experience.
The statement is derived from the properties of the single components.
The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

### 11.2. Information on other hazards

**Endocrine disrupting properties**

Based on available data, the classification criteria are not met.
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## SECTION 12: Ecological information

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

| CAS No | Chemical name | | | | | | |
|---|---|---|---|---|---|---|---|
| | Aquatic toxicity | Dose | | [h] \| [d] | Species | Source | Method |
| 64742-56-9 | Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified | | | | | | |
| | Acute fish toxicity | LC50 mg/l | > 100 | 96 h | Dickkopfelritze | | |
| | Acute algae toxicity | ErC50 mg/l | > 100 | | Grünalgen | | |
| | Acute crustacea toxicity | EC50 mg/l | > 1000 | 48 h | Daphnia magna | | |
| | Crustacea toxicity | NOEC mg/l | 10,0 | 21 d | Daphnia magna | | |
| 770-35-4 | 1-phenoxypropan-2-ol | | | | | | |
| | Acute fish toxicity | LC50 | 280 mg/l | 96 h | Pimephales promelas( | | OECD 203 |
| | Acute algae toxicity | ErC50 mg/l | 74,5 | 72 h | Desmodesmus subspicatus | | |
| | Acute crustacea toxicity | EC50 | 370 mg/l | 48 h | Daphnia magna | | OECD 202 |
| 68511-37-5 | Poly(oxy-1,2-ethanediyl),alpha-hydro-omega-hydroxy-,mono-C12-14-alkyl ethers, phosphates | | | | | | |
| | Acute fish toxicity | LC50 | 5,7 mg/l | 96 h | Leuciscus idus (Goldorfe) | | OECD 203 |
| | Acute crustacea toxicity | EC50 mg/l | 0,33 | 48 h | Daphnia magna (Großer Wasserfloh) | | OECD 202 |
| 68608-26-4 | Sulfonic acids, petroleum, sodium salts | | | | | | |
| | Acute fish toxicity | LC50 mg/l | > 10000 | 96 h | marine species | | |
| | Acute algae toxicity | ErC50 mg/l | > 1000 | 72 h | freshwater algae | | |
| | Acute crustacea toxicity | EC50 mg/l | > 1000 | 48 h | Daphnia magna | | |
| 90-43-7 | 2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl | | | | | | |
| | Acute fish toxicity | LC50 | 4,5 mg/l | 96 h | Danio rerio | Echa | |
| | Acute crustacea toxicity | EC50 | 2,7 mg/l | 48 h | Daphnia magna | | |
| | Acute bacteria toxicity | EC50 mg/l ( ) | 3,57 | 3 h | Pseudokirchneriella subcapitata | | |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 2500 | 96 h | Leopomis macrochirus | | static methode |
| | Acute algae toxicity | ErC50 mg/l | > 100 | 96 h | Scenedesmus subspicatus | | static methode |
| | Acute crustacea toxicity | EC50 mg/l | > 1000 | 48 h | Daphnia magna | | static methode |
| | Acute bacteria toxicity | EC50 mg/l ( ) | > 1000 | | | | static methode 0,1d |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | | | | | | |
| | Acute fish toxicity | LC50 | 1,5 mg/l | 96 h | Oncorhynchus mykiss | | |
| | Acute algae toxicity | ErC50 mg/l | 0,108 | 96 h | Algae | | |
| | Acute crustacea toxicity | EC50 mg/l | 0,99 | 48 h | Daphnia magne | | |
| 141-43-5 | 2-aminoethanol; ethanolamine | | | | | | |
| | Acute fish toxicity | LC50 | 150 mg/l | 96 h | Oncorhynchus mykiss | IUCLID | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Acute algae toxicity | ErC50 | 22 mg/l | 72 h | Desmodesmus subspicatus | | |
| | Acute crustacea toxicity | EC50 | 65 mg/l | 48 h | Daphnia magna | | |
| 2682-20-4 | 2-methylisothiazol-3(2H)-one | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 4,77 | 96 h | Oncorhynchus mykiss | ECHA | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 mg/l | 0,157 | 72 h | Grünalge | ECHA | |
| | Acute crustacea toxicity | EC50 mg/l | 0,934 | 48 h | Daphnia magna | ECHA | OECD Guideline 202 |
| | Algae toxicity | NOEC mg/l | 0,05 | 72 d | Pseudokirchneriella subcapitata | | |
| | Crustacea toxicity | NOEC mg/l | 0,044 | 21 d | Daphnia magna | ECHA | OECD Guideline 211 |
| | Acute bacteria toxicity | EC50 mg/l ( ) | 34,6 | 3 h | Bacteria | | DIN 38412-3 (TTC-Test) |

**12.2. Persistence and degradability**

The product has not been tested.

| CAS No | Chemical name | | | |
|---|---|---|---|---|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 64742-56-9 | Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified | | | |
| | OECD TG 301 B | 30% | 28 | |
| | Inhärenter Schlamm | 30 % | 28 | |
| 770-35-4 | 1-phenoxypropan-2-ol | | | |
| | OECD 301 F | 72% | | |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | |
| 90-43-7 | 2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl | | | |
| | OECD 301D | 75% | 28 | |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | |
| | OECD 301B | 70-75 % | 28 | |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | | | |
| | OECD 301C / ISO 9408 | 89 % | 28 | |
| | Product is biodegradable. | | | |
| | OECD 302B | 100 % | 28 | |
| | Product is biodegradable. | | | |
| | OECD TG 301 E | 94 % | 28 | |
| | Product is biodegradable. | | | |

**12.3. Bioaccumulative potential**

The product has not been tested.

**Partition coefficient n-octanol/water**

| CAS No | Chemical name | Log Pow |
|---|---|---|
| 770-35-4 | 1-phenoxypropan-2-ol | 1,41 |
| 68608-26-4 | Sulfonic acids, petroleum, sodium salts | 22,12 |
| 90-43-7 | 2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl | 3,18 |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether | 0,29 |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | 0,7 |
| 141-43-5 | 2-aminoethanol; ethanolamine | -1,91 (25°C) |
| 2682-20-4 | 2-methylisothiazol-3(2H)-one | -0,486 |

**BCF**

| CAS No | Chemical name | BCF | Species | Source |
|---|---|---|---|---|
| 90-43-7 | 2-phenylphenol (ISO)biphenyl-2-ol; 2-hydroxybiphenyl | 22 | | |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | 6,62 | | |

**12.4. Mobility in soil**

in delivery condition: liquid

**12.5. Results of PBT and vPvB assessment**

Based on available data, the classification criteria are not met.
No information available.

**12.6. Endocrine disrupting properties**

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

**12.7. Other adverse effects**

Avoid release to the environment.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Disposal recommendations**

Completely emptied packings can be re-cycled. Dispose of waste according to applicable legislation.
Dispose of contents/container to an appropriate recycling or disposal facility. Consult the local waste disposal expert about waste disposal.

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.

**List of Wastes Code - residues/unused products**

120109 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; machining emulsions and solutions free of halogens; hazardous waste

**List of Wastes Code - used product**

120109 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; machining emulsions and solutions free of halogens; hazardous waste

## SECTION 14: Transport information

**Land transport (ADR/RID)**

**14.1. UN number or ID number:** No dangerous good in sense of these transport regulations.

| | |
|---|---|
| **14.2. UN proper shipping name:** | No dangerous good in sense of these transport regulations. |
| **14.3. Transport hazard class(es):** | No dangerous good in sense of these transport regulations. |
| **14.4. Packing group:** | No dangerous good in sense of these transport regulations. |

**Inland waterways transport (ADN)**

| | |
|---|---|
| **14.1. UN number or ID number:** | No dangerous good in sense of these transport regulations. |
| **14.2. UN proper shipping name:** | No dangerous good in sense of these transport regulations. |
| **14.3. Transport hazard class(es):** | No dangerous good in sense of these transport regulations. |
| **14.4. Packing group:** | No dangerous good in sense of these transport regulations. |

**Marine transport (IMDG)**

| | |
|---|---|
| **14.1. UN number or ID number:** | No dangerous good in sense of these transport regulations. |
| **14.2. UN proper shipping name:** | No dangerous good in sense of these transport regulations. |
| **14.3. Transport hazard class(es):** | No dangerous good in sense of these transport regulations. |
| **14.4. Packing group:** | - |

**Air transport (ICAO-TI/IATA-DGR)**

| | |
|---|---|
| **14.1. UN number or ID number:** | No dangerous good in sense of these transport regulations. |
| **14.2. UN proper shipping name:** | No dangerous good in sense of these transport regulations. |
| **14.3. Transport hazard class(es):** | No dangerous good in sense of these transport regulations. |
| **14.4. Packing group:** | - |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Personal protection equipment: see section 8

**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 3, Entry 75

**National regulatory information**

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

**Changes**

AICS (Australien), DSL (Kanada), IECSC (China), REACH (Europäische Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (Neuseeland), PICCS (Philippinen), TSCA (USA)

**Abbreviations and acronyms**

Acute Tox. 2: Acute toxicity, hazard category 2
Acute Tox. 3: Acute toxicity, hazard category 3
Acute Tox. 4: Acute toxicity, hazard category 4
Asp. Tox. 1: Aspiration hazard, hazard category 1
Skin Corr. 1B: Skin corrosion, sub-category 1B
Skin Irrit. 2: Skin irritation, hazard category 2
Eye Dam. 1: Serious eye damage, hazard category 1
Eye Irrit. 2: Eye irritation, hazard category 2
Skin Sens. 1: Skin sensitisation, hazard category 1
Skin Sens. 1A: Skin sensitisation, hazard category 1A
STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3
Aquatic Acute 1: Hazardous to the aquatic environment, hazard category: Acute 1
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard category: Chronic 1
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard category: Chronic 3
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
Repr. - Reproduktionstoxizität
Asp. Tox. - Aspirationstoxizität
Acute Tox. - Akute Toxizität
Aquatic Acute - Akute aquatische Toxizität
Aquatic Chronic - Chronische aquatische Toxizität
Eye Dam. - Augenschaden/-reizung
Eye Irrit. - Augenreizung

Skin Corr. - Ätzwirkung auf die Haut
Skin Irrit. - Hautreizung
Skin Sens. - Hautallergen
Resp. Sens. - Inhalationsallergen
STOT SE - Spezifische Zielorgan-Toxizität - einmalige Exposition
STOT RE - Spezifische Zielorgan-Toxizität - wiederholte Exposition
VOC - Flüchtige organische Verbindungen

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

| Classification | Classification procedure |
|---|---|
| Aquatic Chronic 3; H412 | Calculation method |

**Relevant H and EUH statements (number and full text)**

| | |
|---|---|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful 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. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH071 | Corrosive to the respiratory tract. |
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, 2-methylisothiazol-3(2H)-one. May produce an allergic reaction. |

**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.
Abkürzungen und Akronyme siehe Verzeichnis unter http://abk.esdscom.eu

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