

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MOBIHEL HYDRO Base MIX

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 06.09.2023 | MAT0GA05_010 | Date of first issue: 06.09.2023 |
| | | IE/EN | |

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

1.1 Product identifier

Trade name : MOBIHEL HYDRO Base MIX

Product code : Please see section 16 for detailed data

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

Use of the Sub-stance/Mixture : PC9a Coatings and paints, thinners, paint removers

Recommended restrictions on use : Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company : KANSAI HELIOS Slovenija d.o.o.
Količevo 65
1230 Domžale
Slovenia

Telephone Company : 386 (1) 722 4383

Telefax Company : 386 (1) 722 4310

Responsible/issuing person : 386 (1) 722 4383
productsafety@kansai-helios.si

1.4 Emergency telephone number

01 809 2166 National Poisons Information Centre 01 809 2166

01 809 2566 Healthcare Professionals 01 809 2566

01 809 2566 Healthcare Professionals 01 809 2566

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

| | |
|------------------------------------|-------------------------------------|
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |
| Reproductive toxicity, Category 1B | H360D: May damage the unborn child. |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H318 Causes serious eye damage.
H360D May damage the unborn child.

Precautionary statements

:

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

butan-1-ol
N-methyl-2-pyrrolidone

Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Restricted to professional users.

EUH211

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|------------------------|---|---|--------------------------|
| 2-butoxyethanol | 111-76-2 203-905-0 603-014-00-0 01-2119475108-36 | Acute Tox. 4; H302 Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute toxicity estimate Acute oral toxicity: 1,200 mg/kg | >= 1 - < 10 |
| butan-1-ol | 71-36-3 200-751-6 603-004-00-6 01-2119484630-38 | Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) | >= 3 - < 10 |
| N-methyl-2-pyrrolidone | 872-50-4 212-828-1 606-021-00-7 01-2119472430-46 | Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 1B; H360D STOT SE 3; H335 (Respiratory system) specific concentration limit STOT SE 3; H335 >= 10 % Acute toxicity estimate Acute inhalation toxicity (vapour): 5.1 mg/l | >= 1 - < 10 |

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| 2-dimethylaminoethanol | 108-01-0 203-542-8 603-047-00-0 01-2119492298-24 | Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system) specific concentration limit STOT SE 3; H335 ≥ 5 % | ≥ 0.1 - < 1 |
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5 220-120-9 613-088-00-6 01-2120761540-60 | Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 specific concentration limit Skin Sens. 1; H317 ≥ 0.05 % | ≥ 0.0025 - < 0.025 |
| 2-methylisothiazol-3(2H)-one | 2682-20-4 220-239-6 613-326-00-9 01-2120764690-50 | Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1 specific concentration limit Skin Sens. 1A; H317 ≥ 0.0015 % | ≥ 0.0002 - < 0.0015 |
| reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one and 2- | 55965-84-9 | Acute Tox. 3; H301 Acute Tox. 2; H330 | ≥ 0.0002 - < 0.0015 |

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| methyl-2H -isothiazol-3- one (3:1) | 613-167-00-5 01-2120764691-48 | Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 |
| | | M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100 |
| | | specific concentration limit Skin Corr. 1C; H314 ≥ 0.6 % Skin Irrit. 2; H315 0.06 - < 0.6 % Eye Irrit. 2; H319 0.06 - < 0.6 % Skin Sens. 1A; H317 ≥ 0.0015 % Eye Dam. 1; H318 ≥ 0.6 % |

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.

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Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes serious eye damage.
May damage the unborn child.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO₂)

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : No smoking. Keep in a well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

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Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data sheet.

Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|------------------------|---|--------------------------------------|---------------------------------|-------------|
| 2-butoxyethanol | 111-76-2 | TWA | 20 ppm 98 mg/m ³ | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | STEL | 50 ppm 246 mg/m ³ | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | OELV - 8 hrs (TWA) | 20 ppm 98 mg/m ³ | IE OEL |
| | Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body | | | |
| | | OELV - 15 min (STEL) | 50 ppm 246 mg/m ³ | IE OEL |
| | Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body | | | |
| butan-1-ol | 71-36-3 | OELV - 8 hrs (TWA) | 20 ppm | IE OEL |
| aluminium | 7429-90-5 | OELV - 8 hrs (TWA) (Respirable dust) | 1 mg/m ³ | IE OEL |
| N-methyl-2-pyrrolidone | 872-50-4 | TWA | 10 ppm 40 mg/m ³ | 2009/161/EU |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | STEL | 20 ppm 80 mg/m ³ | 2009/161/EU |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | OELV - 15 min (STEL) | 20 ppm 80 mg/m ³ | IE OEL |
| | Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body | | | |

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| | | OELV - 8 hrs (TWA) | 10 ppm 40 mg/m ³ | IE OEL |
| | Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body | | | |
| | | TWA | 10 ppm 40 mg/m ³ | 2004/37/EC |
| | Further information: Skin, Carcinogens or mutagens | | | |
| | | STEL | 20 ppm 80 mg/m ³ | 2004/37/EC |
| | Further information: Skin, Carcinogens or mutagens | | | |
| titanium dioxide | 13463-67-7 | OELV - 8 hrs (TWA) (Respirable dust) | 4 mg/m ³ | IE OEL |
| | | OELV - 8 hrs (TWA) (inhalable dust) | 10 mg/m ³ | IE OEL |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|-----------------|-----------|-----------------|----------------------------|--------------------------|
| 2-butoxyethanol | Workers | Inhalation | Long-term systemic effects | 98 mg/m ³ |
| | Workers | Inhalation | Acute systemic effects | 1091 mg/m ³ |
| | Workers | Inhalation | Acute local effects | 246 mg/m ³ |
| | Consumers | Inhalation | Long-term systemic effects | 59 mg/m ³ |
| | Consumers | Inhalation | Acute systemic effects | 426 mg/m ³ |
| | Consumers | Inhalation | Acute local effects | 147 mg/kg bw/day |
| | Workers | Dermal | Long-term systemic effects | 125 mg/kg bw/day |
| | Workers | Dermal | Acute systemic effects | 89 mg/kg bw/day |
| | Consumers | Dermal | Long-term systemic effects | 75 mg/kg bw/day |
| | Consumers | Dermal | Acute systemic effects | 89 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 6.3 mg/kg bw/day |
| | Consumers | Oral | Acute systemic effects | 26.7 mg/kg bw/day |
| butan-1-ol | Workers | Inhalation | Long-term local effects | 310 mg/m ³ |
| | Consumers | Inhalation | Long-term systemic effects | 55.357 mg/m ³ |
| | Consumers | Inhalation | Long-term local effects | 155 mg/m ³ |
| | Consumers | Dermal | Long-term systemic effects | 3.125 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic | 1.562 mg/kg |

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| | | | effects | bw/day |
|---|-----------|------------|----------------------------|--------------------|
| aluminium | Workers | Inhalation | Long-term systemic effects | 3.72 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 3.72 mg/m3 |
| | Consumers | Oral | Long-term systemic effects | 3.95 mg/kg bw/day |
| N-methyl-2-pyrrolidone | Workers | Inhalation | Long-term local effects | 40 mg/m3 |
| | Workers | Inhalation | Long-term systemic effects | 14.4 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 3.6 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 4.8 mg/kg bw/day |
| | Consumers | Inhalation | Long-term local effects | 4.5 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 2.4 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 0.85 mg/kg bw/day |
| titanium dioxide | Workers | Inhalation | Long-term local effects | 10 mg/m3 |
| | Consumers | Oral | Long-term systemic effects | 700 mg/kg bw/day |
| 2-dimethylaminoethanol | Workers | Inhalation | Long-term systemic effects | 7.4 mg/m3 |
| | Workers | Inhalation | Acute local effects | 22 mg/m3 |
| | Workers | Dermal | Acute local effects | 0.08 mg/cm2 |
| | Workers | Dermal | Long-term systemic effects | 1.04 mg/kg bw/day |
| | Workers | Dermal | Acute systemic effects | 5 mg/kg bw/day |
| 1,2-benzisothiazol-3(2H)-one | Workers | Inhalation | Long-term systemic effects | 6.81 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 0.966 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 1.2 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 0.345 mg/kg bw/day |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | Consumers | Inhalation | Acute local effects | 0.04 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 0.02 mg/m3 |
| | Workers | Inhalation | Acute local effects | 0.04 mg/m3 |
| | Consumers | Inhalation | Long-term local effects | 0.02 mg/m3 |
| | Consumers | Oral | Long-term systemic | 0.09 mg/kg |

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| | | | effects | bw/day |
| | Consumers | Oral | Acute systemic effects | 0.11 mg/kg bw/day |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|------------------------|---------------------------|--------------------------------|
| 2-butoxyethanol | Soil | 2.33 mg/kg dry weight (d.w.) |
| | Marine water | 0.88 mg/l |
| | Fresh water | 8.8 mg/l |
| | Fresh water sediment | 34.6 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 463 mg/l |
| | Intermittent use/release | 9.1 mg/l |
| butan-1-ol | Soil | 0.0166 mg/kg dry weight (d.w.) |
| | Marine water | 0.0082 mg/l |
| | Fresh water | 0.082 mg/l |
| | Marine sediment | 0.0324 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 0.324 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 2476 mg/l |
| aluminium | Intermittent use/release | 2.25 mg/l |
| | Sewage treatment plant | 20 mg/l |
| N-methyl-2-pyrrolidone | Soil | 0.07 mg/kg dry weight (d.w.) |
| | Marine water | 0.025 mg/l |
| | Fresh water | 0.25 mg/l |
| | Fresh water sediment | 1.09 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 10 mg/l |
| | Intermittent use/release | 5 mg/l |
| titanium dioxide | Marine sediment | 0.109 mg/kg dry weight (d.w.) |
| | Soil | 100 mg/kg dry weight (d.w.) |
| | Marine water | 0.0184 mg/l |
| | Fresh water | 0.184 mg/l |
| | Marine sediment | 100 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 1000 mg/kg dry weight (d.w.) |
| 2-dimethylaminoethanol | Sewage treatment plant | 100 mg/l |
| | Intermittent use/release | 0.193 mg/l |
| | Soil | 0.0177 mg/kg dry weight (d.w.) |
| | Marine water | 0.00661 mg/l |
| | Fresh water | 0.0661 mg/l |
| | Fresh water sediment | 0.0529 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 10 mg/l |

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| | Intermittent use/release | 0.0661 mg/l |
| 1,2-benzisothiazol-3(2H)-one | Fresh water | 0.00403 mg/l |
| | Intermittent use/release | 0.0011 mg/l |
| | Marine water | 0.000403 mg/l |
| | Sewage treatment plant | 1.03 mg/l |
| | Fresh water sediment | 0.0499 mg/kg dry weight (d.w.) |
| | Marine sediment | 0.00499 mg/kg dry weight (d.w.) |
| | Soil | 3 mg/kg dry weight (d.w.) |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3- one (3:1) | Soil | 0.01 mg/kg dry weight (d.w.) |
| | Marine water | 0.00339 mg/l |
| | Fresh water | 0.00339 mg/l |
| | Marine sediment | 0.027 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 0.027 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 0.23 mg/l |
| | Intermittent use/release | 0.00339 mg/l |

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Equipment should conform to EN 166
Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Gloves : Nitrile rubber (> 0,1 mm; < 60 min); DIN EN374 |
butyl-rubber (> 0,6 mm; < 240 min); DIN EN374 |
Viton® (> 0,6 mm; < 240 min); DIN EN374 |
PE laminate (> 0,1 mm; < 240 min); DIN EN374 |

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Equipment should conform to EN 14387

Filter type : Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|--|
| Physical state | : liquid |
| Colour | : in accordance with the product description |
| Odour | : solvent-like |
| Odour Threshold | : No data available |
| Melting point/freezing point | : 0.0 °C (calculation method (principal components, lowest value)) |
| Boiling point/boiling range | : 100 °C (calculation method (principal components, lowest value)) |
| Flammability | : Static-accumulating flammable liquid., Combustible Solids |
| Flash point | : 66 °C |
| Decomposition temperature | : No decomposition if stored and applied as directed. Hazardous decomposition products formed under fire conditions. |
| pH | : Not applicable |
| Viscosity | |
| Viscosity, kinematic | : > 20.5 mm ² /s (40 °C) |
| Flow time | : 35 - 45 s at 20 °C Cross section: 4 mm Method: DIN4 |
| Solubility(ies) | |
| Water solubility | : immiscible, partly soluble |
| Solubility in other solvents | : Description: miscible with most organic solvents |
| Partition coefficient: n-octanol/water | : No data available |

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|-------------------------|---|--|
| Vapour pressure | : | 23 hPa (calculation method (principal components, highest value)) (20 °C) |
| Relative density | : | No data available |
| Density | : | 0.99 - 1.213 g/cm ³ |
| Relative vapour density | : | No data available |

9.2 Other information

| | | |
|----------------------|---|-----------------------------------|
| Explosives | : | Not applicable |
| Oxidizing properties | : | Not applicable |
| VOC | : | (Directive 2004/42/EC) 410 g/l |

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

| | | |
|---------------------|---|---|
| Hazardous reactions | : | No decomposition if stored and applied as directed. |
|---------------------|---|---|

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

| | | |
|---------------------|---|--------------------------|
| Conditions to avoid | : | Heat, flames and sparks. |
|---------------------|---|--------------------------|

10.5 Incompatible materials

| | | |
|--------------------|---|---|
| Materials to avoid | : | Incompatible with strong acids and bases. |
|--------------------|---|---|

10.6 Hazardous decomposition products

Adequate ventilation is required.
Heating can release vapours which can be ignited.
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

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Product:

| | | |
|---------------------------|---|---|
| Acute oral toxicity | : | Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method |
| Acute inhalation toxicity | : | Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method |

Components:

2-butoxyethanol:

| | | |
|---------------------------|---|---|
| Acute oral toxicity | : | Acute toxicity estimate: 1,200 mg/kg Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008 |
| Acute inhalation toxicity | : | LC50 (Rat): 450 ppm Exposure time: 4 h Test atmosphere: vapour Assessment: The component/mixture is toxic after short term inhalation. |

butan-1-ol:

| | | |
|---------------------------|---|---|
| Acute oral toxicity | : | Assessment: The component/mixture is moderately toxic after single ingestion. LD50 Oral (Rat): > 2,000 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat): > 5 mg/l Test atmosphere: vapour |
| Acute dermal toxicity | : | LD50 (Rabbit): > 2,000 mg/kg |

N-methyl-2-pyrrolidone:

| | | |
|---------------------------|---|--|
| Acute oral toxicity | : | LD50 Oral (Rat): >= 4,150 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat): >= 5.1 mg/l Exposure time: 4 h Test atmosphere: vapour |
| Acute dermal toxicity | : | LD50 Dermal (Rat): >= 5,000 mg/kg |

2-dimethylaminoethanol:

| | | |
|---------------------------|---|---|
| Acute inhalation toxicity | : | Assessment: The component/mixture is toxic after short term inhalation. |
|---------------------------|---|---|

1,2-benzisothiazol-3(2H)-one:

| | | |
|---------------------|---|---|
| Acute oral toxicity | : | Assessment: The component/mixture is moderately toxic after single ingestion. |
|---------------------|---|---|

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2-methylisothiazol-3(2H)-one:

- Acute oral toxicity : Assessment: The component/mixture is toxic after single ingestion.
- Acute inhalation toxicity : Test atmosphere: vapour
Assessment: The component/mixture is highly toxic after short term inhalation.
- Acute dermal toxicity : Assessment: The component/mixture is toxic after single contact with skin.

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks : Extremely corrosive and destructive to tissue.

Components:

2-butoxyethanol:

Result : irritating

butan-1-ol:

Result : irritating

N-methyl-2-pyrrolidone:

Result : irritating

1,2-benzisothiazol-3(2H)-one:

Result : irritating

2-methylisothiazol-3(2H)-one:

Result : Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

2-butoxyethanol:

Result : Eye irritation

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butan-1-ol:

Result : Corrosive

N-methyl-2-pyrrolidone:

Result : Eye irritation

1,2-benzisothiazol-3(2H)-one:

Result : Corrosive

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

1,2-benzisothiazol-3(2H)-one:

Result : Probability or evidence of skin sensitisation in humans

2-methylisothiazol-3(2H)-one:

Result : Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

May damage the unborn child.

Components:

N-methyl-2-pyrrolidone:

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

STOT - single exposure

Not classified based on available information.

Components:

butan-1-ol:

Assessment : May cause drowsiness or dizziness.

Assessment : May cause respiratory irritation.

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N-methyl-2-pyrrolidone:

Assessment : May cause respiratory irritation.

2-dimethylaminoethanol:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-butoxyethanol:

Toxicity to fish : LC50 (Fish): $\geq 1,700$ mg/l
Exposure time: 96 h

Toxicity to daphnia and other : LC50 (Daphnia (water flea)): $> 1,000$ mg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to microorganisms : EC50 (Bacteria): $> 5,000$ mg/l

butan-1-ol:

Toxicity to fish : LC50 (Fish): $> 1,000$ mg/l

Toxicity to daphnia and other : LC50 (Daphnia (water flea)): $> 1,000$ mg/l
aquatic invertebrates

Toxicity to microorganisms : EC50 (Bacteria): $> 1,000$ mg/l

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1,2-benzisothiazol-3(2H)-one:

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

2-methylisothiazol-3(2H)-one:

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Toxicity to fish : LC50 (Salvelinus namaycush (lake trout)): ≥ 10.85 mg/l
Exposure time: 96 h

Toxicity to algae/aquatic plants : LC50 (algae): ≥ 0.82 mg/l
Exposure time: 48 h

LC50 (algae): 0.018 mg/l
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 100

M-Factor (Chronic aquatic toxicity) : 100

12.2 Persistence and degradability

Components:

2-butoxyethanol:

Biodegradability : Result: Biodegradable

Stability in water : Hydrolyses slowly.

Photodegradation : Decomposes slowly in contact with light.

2-methylisothiazol-3(2H)-one:

Biodegradability : Result: Biodegradable

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12.3 Bioaccumulative potential

Components:

2-butoxyethanol:

Partition coefficient: n-octanol/water : log Pow: 0.81 (20 °C)

butan-1-ol:

Partition coefficient: n-octanol/water : log Pow: 0.785

N-methyl-2-pyrrolidone:

Partition coefficient: n-octanol/water : log Pow: -0.46

2-dimethylaminoethanol:

Partition coefficient: n-octanol/water : log Pow: -0.55

1,2-benzisothiazol-3(2H)-one:

Partition coefficient: n-octanol/water : log Pow: 1.3

12.4 Mobility in soil

Components:

2-butoxyethanol:

Mobility : Medium: Air
Content: 1 %

: Medium: Water
Content: 47 %

: Medium: Soil
Content: 52 %

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

2-butoxyethanol:

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Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

Waste Code : 08 00 00, WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00, wastes from MFSU and removal of paint and varnish
08 01 11, waste paint and varnish containing organic solvents or other hazardous substances
15 00 00, WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00, packaging (including separately collected municipal packaging waste)
15 01 10, packaging containing residues of or contaminated by hazardous substances
HP4, Irritant - skin irritation and eye damage
HP10, Toxic for reproduction

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SECTION 14: Transport information

14.1 UN number or ID number

| | |
|------|-------------------------------------|
| ADN | : Not regulated as a dangerous good |
| ADR | : Not regulated as a dangerous good |
| RID | : Not regulated as a dangerous good |
| IMDG | : Not regulated as a dangerous good |
| IATA | : Not regulated as a dangerous good |

14.2 UN proper shipping name

| | |
|------|-------------------------------------|
| ADN | : Not regulated as a dangerous good |
| ADR | : Not regulated as a dangerous good |
| RID | : Not regulated as a dangerous good |
| IMDG | : Not regulated as a dangerous good |
| IATA | : Not regulated as a dangerous good |

14.3 Transport hazard class(es)

| | |
|------|-------------------------------------|
| ADN | : Not regulated as a dangerous good |
| ADR | : Not regulated as a dangerous good |
| RID | : Not regulated as a dangerous good |
| IMDG | : Not regulated as a dangerous good |
| IATA | : Not regulated as a dangerous good |

14.4 Packing group

| | |
|------------------|-------------------------------------|
| ADN | : Not regulated as a dangerous good |
| ADR | : Not regulated as a dangerous good |
| RID | : Not regulated as a dangerous good |
| IMDG | : Not regulated as a dangerous good |
| IATA (Cargo) | : Not regulated as a dangerous good |
| IATA (Passenger) | : Not regulated as a dangerous good |

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

N-methyl-2-pyrrolidone (Number on list 72, 71, 30)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : N-methyl-2-pyrrolidone

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Volatile organic compounds : Directive 2004/42/EC
Volatile organic compounds (VOC) content: 410 g/l

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

| | |
|--------|---|
| H226 | : Flammable liquid and vapour. |
| H301 | : Toxic if swallowed. |
| H302 | : Harmful if swallowed. |
| H310 | : Fatal in contact with skin. |
| 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. |
| H331 | : Toxic if inhaled. |
| H335 | : May cause respiratory irritation. |
| H336 | : May cause drowsiness or dizziness. |
| H360D | : May damage the unborn child. |
| H400 | : Very toxic to aquatic life. |
| H410 | : Very toxic to aquatic life with long lasting effects. |
| H411 | : Toxic to aquatic life with long lasting effects. |
| EUH071 | : Corrosive to the respiratory tract. |

Full text of other abbreviations

| | |
|-------------------|--|
| Acute Tox. | : Acute toxicity |
| Aquatic Acute | : Short-term (acute) aquatic hazard |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard |
| Eye Dam. | : Serious eye damage |
| Eye Irrit. | : Eye irritation |
| Flam. Liq. | : Flammable liquids |
| Repr. | : Reproductive toxicity |
| Skin Corr. | : Skin corrosion |
| Skin Irrit. | : Skin irritation |
| Skin Sens. | : Skin sensitisation |
| STOT SE | : Specific target organ toxicity - single exposure |
| 2000/39/EC | : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| 2004/37/EC | : Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work |
| 2009/161/EU | : Europe. COMMISSION DIRECTIVE 2009/161/EU establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC |
| IE OEL | : Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1 |
| 2000/39/EC / TWA | : Limit Value - eight hours |
| 2000/39/EC / STEL | : Short term exposure limit |

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| | | |
|-------------------------------|---|--|
| 2004/37/EC / STEL | : | Short term exposure limit |
| 2004/37/EC / TWA | : | Long term exposure limit |
| 2009/161/EU / TWA | : | Limit Value - eight hours |
| 2009/161/EU / STEL | : | Short term exposure limit |
| IE OEL / OELV - 8 hrs (TWA) | : | Occupational exposure limit value (8-hour reference period) |
| IE OEL / OELV - 15 min (STEL) | : | Occupational exposure limit value (15-minute reference period) |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

| | |
|------------|-------|
| Eye Dam. 1 | H318 |
| Repr. 1B | H360D |

Classification procedure:

| |
|--------------------|
| Calculation method |
| Calculation method |

| | |
|--|--|
| Material codes (bulk) for which the SDS is valid | 400929 , 400996, 401107, 401194, 401196, 470600, 470601, 470608, 470610, 470612, 470613, 470614, 470616, 470617, 470618, 470619, 470621, 470622, 470625, 470626, 470627, 470628, 470629, 470630, 470631, 470632, 470633, 470641, 470642, 470643, 470644, 470645, 470646, 470651, 470652, |
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470805

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