

MOBIHEL 2K clearcoat matt low VOC

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|---------|----------------|-----------------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 2.0 | 07.02.2025 | MAT000470564 IL/EN | Date of first issue: 28.11.2023 |

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

Trade name : MOBIHEL 2K clearcoat matt low VOC

Product code : 470564

1.2 Relevant identified uses of the substance or mixture and uses advised againstUse of the Sub-
stance/Mixture : Coatings and paints, thinners, paint removersRecommended 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**

Ambulance (972) 101

Israel Poison Information Center +972 4 854 19 00

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

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Specific target organ toxicity - single exposure, Category 3, Respiratory system

H335: May cause respiratory irritation.

Specific target organ toxicity - single exposure, Category 3, Central nervous system

H336: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure, Category 2

H373: May cause damage to organs through prolonged or repeated exposure.

Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Warning

Hazard statements :

| | |
|------|--|
| H226 | Flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements :

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe mist or vapours.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

n-butyl acetate
reaction mixture of ethylbenzene, m-xylene and p-xylene

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mixture of benzotriazole
mixture of sterically composed sebacates
Fatty acids, C14-18 and C16-18-unsatd., maleated
maleic anhydride

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.

SECTION 3: Composition/information on ingredients**3.2 Mixtures****Components**

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|---|---|--|--------------------------|
| n-butyl acetate | 123-86-4 204-658-1 607-025-00-1 01-2119485493-29 | Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) | >= 20 - < 30 |
| reaction mixture of ethylbenzene, m-xylene and p-xylene | Not Assigned 905-562-9 01-2119555267-33 | Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 Asp. Tox. 1; H304 | >= 10 - < 20 |
| Hydrocarbons, C9 aromatics | Not Assigned 918-668-5 01-2119455851-35 | Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | >= 2.5 - < 10 |
| 2-methoxy-1-methylethyl acetate | 108-65-6 203-603-9 607-195-00-7 01-2119475791-29 | Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) | >= 1 - < 10 |
| mixture of benzotriazole | 104810-48-2 400-830-7 607-176-00-3 | Skin Sens. 1; H317 Aquatic Chronic 2; H411 | >= 0.25 - < 1 |

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| | | | |
|--|---|---|----------------------|
| | 01-0000015075-76 | | |
| Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 1065336-91-5 915-687-0 01-2119491304-40 | Skin Sens. 1; H317 Repr. 2; H361f Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | $\geq 0.25 - < 1$ |
| fatty acids, C14-18 and C16-18-unsatd., maleated | 85711-46-2 288-306-2 01-2119976378-19 | Skin Irrit. 2; H315 Skin Sens. 1; H317 | $\geq 0.1 - < 1$ |
| maleic anhydride | 108-31-6 203-571-6 607-096-00-9 01-2119472428-31 | Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 STOT RE 1; H372 (Respiratory system) | $\geq 0.001 - < 0.1$ |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.
- 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 : Immediately flush eye(s) with plenty of water.
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 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.

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4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.

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 : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

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 sepa-

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rately in closed containments.
Use a water spray to cool fully closed containers.

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

Personal precautions : Use personal protective equipment.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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).

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.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

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Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). 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 container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

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 |
|---|-----------|-------------------------------|----------------------------------|--------------|
| n-butyl acetate | 123-86-4 | STEL | 150 ppm 723 mg/m ³ | 2019/1831/EU |
| Further information: Indicative | | | | |
| | | TWA | 50 ppm 241 mg/m ³ | 2019/1831/EU |
| Further information: Indicative | | | | |
| | | TWA | 50 ppm | ACGIH |
| | | STEL | 150 ppm | ACGIH |
| reaction mixture of ethylbenzene, m-xylene and p-xylene | 1330-20-7 | TLV-TWA | 100 ppm | IL OEL |
| | | TLV-C | 150 mg/m ³ | IL OEL |
| | | TWA | 50 ppm 221 mg/m ³ | 2000/39/EC |
| Further information: Identifies the possibility of significant uptake through the | | | | |

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| | skin, Indicative | | | |
| | | STEL | 100 ppm 442 mg/m ³ | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | TWA | 20 ppm | ACGIH |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | STEL | 100 ppm 550 mg/m ³ | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | TWA | 50 ppm 275 mg/m ³ | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| maleic anhydride | 108-31-6 | TWA (Inhalable fraction and vapor) | 0.01 mg/m ³ | ACGIH |

Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|---|-----------|--|--|-----------|
| reaction mixture of ethylbenzene, m-xylene and p-xylene | 1330-20-7 | methyl hippuric acid: 1.5 g/g creatinine (Urine) | | IL BEI |
| | | Methylhippuric acids: 1.5 g/g creatinine (Urine) | End of shift (As soon as possible after exposure ceases) | ACGIH BEI |

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

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|-----------------|-----------|-----------------|----------------------------|------------------------|
| n-butyl acetate | Workers | Inhalation | Acute systemic effects | 600 mg/m ³ |
| | Workers | Inhalation | Acute local effects | 600 mg/m ³ |
| | Workers | Inhalation | Long-term systemic effects | 48 mg/m ³ |
| | Workers | Inhalation | Long-term local effects | 300 mg/m ³ |
| | Consumers | Inhalation | Acute systemic effects | 300 mg/m ³ |
| | Consumers | Inhalation | Acute local effects | 300 mg/m ³ |
| | Consumers | Inhalation | Long-term systemic effects | 12 mg/m ³ |
| | Consumers | Inhalation | Long-term local effects | 35.7 mg/m ³ |
| | Consumers | Dermal | Long-term systemic effects | 3.4 mg/kg bw/day |
| | Consumers | Dermal | Acute systemic effects | 6 mg/kg bw/day |

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| | Consumers | Oral | Long-term systemic effects | 2 mg/kg bw/day |
| | Consumers | Oral | Acute systemic effects | 2 mg/kg bw/day |
| | Workers | Dermal | Long-term systemic effects | 7 mg/kg bw/day |
| | Workers | Dermal | Acute systemic effects | 11 mg/kg bw/day |
| reaction mixture of ethylbenzene, m-xylene and p-xylene | Workers | Inhalation | Long-term systemic effects | 77 mg/m3 |
| | Consumers | Inhalation | Long-term local effects | 65.3 mg/m3 |
| | Workers | Inhalation | Acute systemic effects | 442 mg/m3 |
| | Workers | Inhalation | Acute local effects | 289 mg/m3 |
| | Consumers | Inhalation | Acute systemic effects | 260 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 221 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 14.8 mg/m3 |
| | Consumers | Inhalation | Acute local effects | 260 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 108 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 16 mg/kg bw/day |
| | Workers | Dermal | Long-term systemic effects | 180 mg/kg bw/day |
| silica gel | Workers | Inhalation | Long-term systemic effects | 4 mg/m3 |
| Hydrocarbons, C9 aromatics | Workers | Inhalation | Long-term systemic effects | 150 mg/m3 |
| | Workers | Oral | Long-term systemic effects | 150 mg/m3 |
| | Consumers | Inhalation | Long-term exposure | 32 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 25 mg/kg bw/day |
| | Consumers | Dermal | Long-term systemic effects | 11 mg/kg bw/day |
| 2-methoxy-1-methylethyl acetate | Workers | Inhalation | Long-term systemic effects | 275 mg/m3 |
| | Workers | Inhalation | Acute local effects | 550 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 33 mg/m3 |
| | Consumers | Inhalation | Long-term local effects | 33 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 796 mg/kg bw/day |
| | Consumers | Dermal | Long-term systemic effects | 320 mg/kg bw/day |

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| | Consumers | Oral | Long-term systemic effects | 36 mg/kg bw/day |
| Fatty acids, C14-18 and C16-18-unsatd., maleated | Workers | Dermal | Long-term systemic effects | 3.33 mg/kg bw/day |
| | Consumers | Dermal | Long-term systemic effects | 1.67 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 1.67 mg/kg bw/day |

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

| Substance name | Environmental Compartment | Value |
|---|---------------------------|--------------------------------|
| n-butyl acetate | Soil | 0.0903 mg/kg dry weight (d.w.) |
| | Marine water | 0.018 mg/l |
| | Fresh water | 0.18 mg/l |
| | Marine sediment | 0.0981 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 0.981 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 35.6 mg/l |
| | Intermittent use/release | 0.36 mg/l |
| reaction mixture of ethylbenzene, m-xylene and p-xylene | Soil | 2.31 mg/kg dry weight (d.w.) |
| | Marine water | 0.327 mg/l |
| | Fresh water | 0.327 mg/l |
| | Marine sediment | 12.46 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 12.46 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 6.58 mg/l |
| | Intermittent use/release | 0.327 mg/l |
| 2-methoxy-1-methylethyl acetate | Soil | 0.29 mg/kg dry weight (d.w.) |
| | Marine water | 0.0635 mg/l |
| | Fresh water | 0.635 mg/l |
| | Marine sediment | 0.329 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 3.29 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 100 mg/l |
| | Intermittent use/release | 0.00635 mg/l |
| Fatty acids, C14-18 and C16-18-unsatd., maleated | Sewage treatment plant | 100 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

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problems.

Hand protection

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

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Organic vapour type (A)

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance : liquid

Colour : transparent

Odour : solvent-like

Odour Threshold : No data available

pH : Not applicable

Melting point/freezing point : -78.0 °C
(calculation method (principal components, lowest value))

Boiling point/boiling range : 126 °C (calculation method (principal components, lowest value))

Flash point : 34 °C

Flammability (solid, gas) : Static-accumulating flammable liquid., Combustible Solids

Upper explosion limit / Upper : 7.5 %(V)

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| flammability limit | (calculation method (principal components, highest value)) |
| Lower explosion limit / Lower flammability limit | : 1.1 %(V) (calculation method (principal components, highest value)) |
| Vapour pressure | : < 1,100 hPa (calculation method (principal components, highest value)) (50 °C) |
| Relative vapour density | : 4 (calculation method (principal components, highest value)) |
| Relative density | : 1.02 (calculation method (principal components, highest value)) |
| Density | : 1.035 g/cm ³ |
| Solubility(ies) | |
| Water solubility | : immiscible, partly soluble |
| Solubility in other solvents | : Description: miscible with most organic solvents |
| Partition coefficient: n-octanol/water | : log Pow: < 4 (calculation method (principal components, highest value)) |
| Ignition temperature | : 425 °C (calculation method (principal components, highest value)) |
| Decomposition temperature | : No decomposition if stored and applied as directed. Hazardous decomposition products formed under fire conditions. |
| Viscosity | |
| Viscosity, kinematic | : > 20.5 mm ² /s (40 °C) |
| Flow time | : 33 - 37 s at 20 °C Cross section: 6 mm Method: DIN 53211 |
| Explosive properties | : Not applicable |
| Oxidizing properties | : Sustains combustion |

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9.2 Other information

No data available
VOC : (Directive 2004/42/EC)
620 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

No hazardous decomposition products are known.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Not classified based on available information.
Not classified due to lack of data.

Product:

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

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Components:**n-butyl acetate:**Acute oral toxicity : LD50 Oral (Rat): $\geq 10,760$ mg/kgAcute dermal toxicity : LD50 (Rabbit): $\geq 5,000$ mg/kg**reaction mixture of ethylbenzene, m-xylene and p-xylene:**Acute oral toxicity : LD50 Oral (Rat): $\geq 8,700$ mg/kgAcute inhalation toxicity : LC50 (Rat): 27.14 mg/l
Test atmosphere: vapour

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

Hydrocarbons, C9 aromatics:Acute dermal toxicity : LD50 (Rabbit): $> 3,160$ mg/kg**2-methoxy-1-methylethyl acetate:**Acute oral toxicity : LD50 Oral (Rat): $> > 2,000$ mg/kgAcute inhalation toxicity : LC50 (Rat): > 5 mg/l
Test atmosphere: vapourLC0 (Rat): 2000 ppm
Exposure time: 3 hAcute dermal toxicity : LD50 (Rabbit): $> > 2,000$ mg/kg**maleic anhydride:**

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

Skin corrosion/irritation

Causes skin irritation.

Causes skin irritation.

Product:

Remarks : May cause skin irritation and/or dermatitis.

Components:**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Result : irritating

Fatty acids, C14-18 and C16-18-unsatd., maleated:

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Result : irritating

maleic anhydride:

Result : Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Causes serious eye irritation.

Causes serious eye irritation.

Product:

Remarks : May cause irreversible eye damage.

Components:**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Result : Eye irritation

Respiratory or skin sensitisation**Skin sensitisation**

May cause an allergic skin reaction.

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Remarks : Causes sensitisation.

Components:**mixture of benzotriazole:**

Result : Probability or evidence of skin sensitisation in humans

mixture of sterically composed sebacates:

Result : May cause sensitisation by skin contact.

Fatty acids, C14-18 and C16-18-unsatd., maleated:

Result : Probability or evidence of skin sensitisation in humans

maleic anhydride:

Result : Probability of respiratory sensitisation in humans based on animal testing

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Result : Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity

Not classified based on available information.
Not classified due to lack of data.

Carcinogenicity

Not classified based on available information.
Not classified due to lack of data.

Reproductive toxicity

Not classified based on available information.
Not classified due to lack of data.

Components:**mixture of sterically composed sebacates:**

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility ,based on animal experiments.

STOT - single exposure

May cause respiratory irritation.
May cause drowsiness or dizziness.
May cause respiratory irritation.
May cause drowsiness or dizziness.

Components:**n-butyl acetate:**

Assessment : May cause drowsiness or dizziness.

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Assessment : May cause respiratory irritation.

Hydrocarbons, C9 aromatics:

Assessment : May cause drowsiness or dizziness.

Assessment : May cause respiratory irritation.

2-methoxy-1-methylethyl acetate:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.
May cause damage to organs through prolonged or repeated exposure.

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Assessment : May cause damage to organs through prolonged or repeated exposure.

maleic anhydride:

Assessment : May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Not classified due to lack of data.

Components:**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

May be fatal if swallowed and enters airways.

Hydrocarbons, C9 aromatics:

May be fatal if swallowed and enters airways.

Further information**Product:**Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

SECTION 12: Ecological information**12.1 Toxicity****Components:****n-butyl acetate:**

Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): > 200 mg/l

EC50 (Desmodesmus subspicatus (green algae)): >= 647.7 mg/l

Exposure time: 72 h

Toxicity to microorganisms : IC50 (Tetrahymena pyriformis): 356 mg/l
Exposure time: 40 h

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reaction mixture of ethylbenzene, m-xylene and p-xylene:

Toxicity to fish : LC50 (Fish): $\geq 1 - 10$ mg/l

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): $\geq 1 - 10$ mg/l

Toxicity to microorganisms : EC50 (Bacteria): $\geq 1 - 100$ mg/l

Hydrocarbons, C9 aromatics:

Toxicity to fish : LC50 (Fish): ≥ 9.2 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): ≥ 3.2 mg/l
Exposure time: 48 h

Ecotoxicology Assessment

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

2-methoxy-1-methylethyl acetate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 130 mg/l
Exposure time: 96 h

NOEC : 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 : 408 mg/l
Exposure time: 48 h

Toxicity to fish (Chronic toxicity) : EC10: 47.5 mg/l

mixture of benzotriazole:**Ecotoxicology Assessment**

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

mixture of sterically composed sebacates:**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

maleic anhydride:

Toxicity to fish : LC50 : 75 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : NOEC: 10 mg/l

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aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d
Species: Daphnia magna (Water flea)**12.2 Persistence and degradability****Components:****n-butyl acetate:**Biodegradability : Result: Biodegradable
Biodegradation: 83 %
Exposure time: 28 d
Method: OECD Test Guideline 301DStability in water : Degradation half life: 78 d
pH: 8
Hydrolyses slowly.

Photodegradation : Decomposes rapidly in contact with light.

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Biodegradability : Readily biodegradable.

Photodegradation : Decomposes rapidly in contact with light.

2-methoxy-1-methylethyl acetate:

Biodegradability : Readily biodegradable.

maleic anhydride:Biodegradability : Result: Biodegradable
Biodegradation: 90 %
Exposure time: 25 d
Method: OECD Test Guideline 301B

Stability in water : Hydrolyses readily.

Photodegradation :

12.3 Bioaccumulative potential**Components:****n-butyl acetate:**Bioaccumulation : Bioconcentration factor (BCF): 15
Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 1.81

reaction mixture of ethylbenzene, m-xylene and p-xylene:

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Bioaccumulation : Bioconcentration factor (BCF): 25.9
Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 2.77 - 3.15

Hydrocarbons, C9 aromatics:

Partition coefficient: n-octanol/water : log Pow: < 4

2-methoxy-1-methylethyl acetate:

Partition coefficient: n-octanol/water : log Pow: 1.2 (20 °C)
pH: 6.8

mixture of sterically composed sebacates:

Partition coefficient: n-octanol/water : log Pow: 2.37 - 2.77
pH: 7

maleic anhydride:

Bioaccumulation : Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -2.61 (20 °C)

12.4 Mobility in soil**Components:****reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Distribution among environmental compartments : Koc: 537, log Koc: 2.73
Moderately mobile in soils
The product evaporates from soil.

Stability in soil : Dissipation time: 23 d
Percentage dissipation: 50 % (DT50)

Hydrocarbons, C9 aromatics:

Mobility : Medium: Air
Content: 92.9 %

: Medium: Water
Content: 3.5 %

: Medium: Soil
Content: 1.9 %

: Medium: Sediment
Content: 1.8 %

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Distribution among environmental compartments : Koc: 1.71 - 14.70
Mobile in soils

The product is insoluble and floats on water.

maleic anhydride:

Mobility : Medium: Water
Content: 100 %

: Medium: Soil
Content: 0 %

Distribution among environmental compartments : Koc: 42, log Koc: 1.63

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.

12.6 Other adverse effects**Product:**

Endocrine disrupting potential : 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.

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product : The product should not be allowed to enter drains, water courses or the soil.
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.

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Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information**14.1 UN number**

ADN : UN 1263
ADR : UN 1263
RID : UN 1263
IMDG : UN 1263
IATA : UN 1263

14.2 UN proper shipping name

ADN : PAINT
ADR : PAINT
RID : PAINT
IMDG : PAINT
IATA : Paint

14.3 Transport hazard class(es)

| | Class | Subsidiary risks |
|-------------|-------|------------------|
| ADN | : 3 | |
| ADR | : 3 | |
| RID | : 3 | |
| IMDG | : 3 | |
| IATA | : 3 | |

14.4 Packing group

ADN
Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

ADR
Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)

RID
Packing group : III

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Classification Code : F1
Hazard Identification Number : 30
Labels : 3

IMDG

Packing group : III
Labels : 3
EmS Code : F-E, S-E

IATA (Cargo)

Packing instruction (cargo aircraft) : 366
Packing instruction (LQ) : Y344
Packing group : III
Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passenger aircraft) : 355
Packing instruction (LQ) : Y344
Packing group : III
Labels : Flammable Liquids

14.5 Environmental hazards**ADN**

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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

Volatile organic compounds : Directive 2004/42/EC
Volatile organic compounds (VOC) content: 620 g/l

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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. |
| H302 | : Harmful if swallowed. |
| H304 | : May be fatal if swallowed and enters airways. |
| 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. |
| H332 | : Harmful if inhaled. |
| H334 | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | : May cause respiratory irritation. |
| H336 | : May cause drowsiness or dizziness. |
| H361f | : Suspected of damaging fertility. |
| H372 | : Causes damage to organs through prolonged or repeated exposure if inhaled. |
| 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. |

Full text of other abbreviations

| | |
|-----------------|--|
| Acute Tox. | : Acute toxicity |
| Aquatic Acute | : Short-term (acute) aquatic hazard |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard |
| Asp. Tox. | : Aspiration hazard |
| Eye Dam. | : Serious eye damage |
| Eye Irrit. | : Eye irritation |
| Flam. Liq. | : Flammable liquids |
| Repr. | : Reproductive toxicity |
| Resp. Sens. | : Respiratory sensitisation |
| Skin Corr. | : Skin corrosion |
| Skin Irrit. | : Skin irritation |
| Skin Sens. | : Skin sensitisation |
| STOT RE | : Specific target organ toxicity - repeated exposure |
| 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 |
| 2019/1831/EU | : Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values |
| ACGIH | : USA. ACGIH Threshold Limit Values (TLV) |
| ACGIH BEI | : ACGIH - Biological Exposure Indices (BEI) |
| IL BEI | : Israel. Safety at Work Regulations - Annex III Biological Expo- |

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| | |
|---------------------|--|
| IL OEL | : sure Indices |
| 2000/39/EC / TWA | : Israel. Safety at Work Regulations (Environmental monitoring and biological monitoring of workers) |
| 2000/39/EC / STEL | : Limit Value - eight hours |
| 2019/1831/EU / TWA | : Short term exposure limit |
| 2019/1831/EU / STEL | : Limit Value - eight hours |
| ACGIH / TWA | : Short term exposure limit |
| ACGIH / STEL | : 8-hour, time-weighted average |
| IL OEL / TLV-TWA | : Short-term exposure limit |
| IL OEL / TLV-C | : Threshold Limit Value - Time Weighted (TLV-TWA) |
| | : Threshold Limit Value - Ceiling (TLV-C) |

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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information**Classification of the mixture:**

| | |
|---------------|------|
| Flam. Liq. 3 | H226 |
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2 | H319 |

Classification procedure:

| |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method |
| Calculation method |

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| | | |
|-------------------|------|--------------------|
| Skin Sens. 1 | H317 | Calculation method |
| STOT SE 3 | H335 | Calculation method |
| STOT SE 3 | H336 | Calculation method |
| STOT RE 2 | H373 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

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