

**MOBIHEL Base MIX**

Version	Revision Date:	SDS Number:	Date of last issue: 19.07.2023
2.0	28.11.2023	MAT0GA05_007	Date of first issue: 19.07.2023
		JO/EN	

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

Trade name : MOBIHEL Base MIX

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

Use of the Sub-  
stance/Mixture : 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**

Emergency telephone number: 911





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**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.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 2	H361: Suspected of damaging fertility or the un-born child.
Specific target organ toxicity - single ex- posure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.

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

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Hazard pictograms	:	   
Signal word	:	Danger
Hazard statements	:	H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness. H361 Suspected of damaging fertility or the unborn child.
Precautionary statements	:	<b>Prevention:</b> P201 Obtain special instructions before use. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing mist or vapours. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  <b>Response:</b> 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. 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  
 butan-1-ol  
 butyl glycollate  
 Fatty acids, C14-18 and C16-18-unsatd., maleated  
 formaldehyde  
 maleic anhydride

**Additional Labelling**

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.

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

## SAFETY DATA SHEET



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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)	>= 30 - < 50
1-butanol	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
reaction mixture of ethylbenzene, m-xylene and p-xylene	-  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	>= 1 - < 10
butyl glycollate	7397-62-8  230-991-7 01-2119514685-36	Eye Dam. 1; H318 Repr. 2; H361	>= 3 - < 10
2-butoxyethyl acetate	112-07-2  203-933-3 607-038-00-2 01-2119475112-47	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312	>= 1 - < 10
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, <2% aromatics	-  01-2119471843-32	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 1 - < 2.5
2-methylpropan-1-ol	78-83-1  201-148-0 603-108-00-1 01-2119484609-23	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 (Central nervous system)	>= 1 - < 3

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		STOT SE 3; H335 (Respiratory system)	
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	$\geq 0.1 - < 1$
formaldehyde	50-00-0 200-001-8 605-001-00-5 01-2119488953-20	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Muta. 2; H341 Carc. 1B; H350	$< 0.1$
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)	$\geq 0.001 - < 0.1$
Substances with a workplace exposure limit :			
(2-methoxymethylethoxy)propanol	34590-94-8 252-104-2 01-2119450011-60		$\geq 1 - < 10$

## 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 : 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 : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty

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of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
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 skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause drowsiness or dizziness.  
Suspected of damaging fertility or the unborn child.

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

Treatment : Treat symptomatically.

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
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.

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For safety reasons in case of fire, cans should be stored separately 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.  
To avoid spills during handling keep bottle on a metal tray.  
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.

Advice on protection against : Do not spray on a naked flame or any incandescent material.

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fire and explosion

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 stor-  
age 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 <sup>3</sup>	2019/1831/EU
		TWA	50 ppm 241 mg/m <sup>3</sup>	2019/1831/EU
reaction mixture of ethylbenzene, m-xylene and p-xylene	1330-20-7	TWA	50 ppm 221 mg/m <sup>3</sup>	2000/39/EC
		STEL	100 ppm 442 mg/m <sup>3</sup>	2000/39/EC
2-butoxyethyl acetate	112-07-2	TWA	20 ppm 133 mg/m <sup>3</sup>	2000/39/EC
		STEL	50 ppm 333 mg/m <sup>3</sup>	2000/39/EC
(2-Methoxymethylethoxy)propanol	34590-94-8	TWA	50 ppm 308 mg/m <sup>3</sup>	2000/39/EC
formaldehyde	50-00-0	TWA	0.3 ppm 0.37 mg/m <sup>3</sup>	2004/37/EC
		STEL	0.6 ppm 0.74 mg/m <sup>3</sup>	2004/37/EC

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Substance name	End Use	Exposure routes	Potential health effects	Value
n-butyl acetate	Workers	Inhalation	Acute systemic effects	600 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	600 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	48 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	300 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	300 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	300 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	12 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	35.7 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	3.4 mg/kg bw/day
	Consumers	Dermal	Acute systemic effects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
	Consumers	Oral	Acute systemic effects	2 mg/kg bw/day
butan-1-ol	Workers	Dermal	Long-term systemic effects	7 mg/kg bw/day
	Workers	Dermal	Acute systemic effects	11 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	310 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	55.357 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	155 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	3.125 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1.562 mg/kg bw/day
Rutile (TiO <sub>2</sub> )	Consumers	Oral	Long-term systemic effects	700 mg/kg bw/day
reaction mixture of ethylbenzene, m-xylene and p-xylene	Workers	Inhalation	Long-term systemic effects	77 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	65.3 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	442 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	289 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	260 mg/m <sup>3</sup>



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	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
butyl glycollate	Workers	Inhalation	Long-term systemic effects	58.8 mg/m3
	Consumers	Inhalation	Long-term systemic effects	17.4 mg/m3
	Consumers	Inhalation	Long-term local effects	17.4 mg/m3
	Consumers	Dermal	Long-term local effects	0.11 mg/cm2
	Consumers	Oral	Long-term systemic effects	4.2 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	41.7 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	25 mg/kg bw/day
2-butoxyethyl acetate	Workers	Inhalation	Long-term systemic effects	333 mg/m3
	Consumers	Oral	Long-term systemic effects	86 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	169 mg/kg bw/day
	Workers	Dermal	Acute systemic effects	120 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	102 mg/kg bw/day
	Consumers	Dermal	Acute systemic effects	72 mg/kg bw/day
	Consumers	Oral	Acute systemic effects	36 mg/kg bw/day
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, <2% aromatics	Workers	Inhalation	Long-term systemic effects	871 mg/m3
	Consumers	Inhalation	Long-term systemic effects	185 mg/m3
	Workers	Dermal	Long-term systemic effects	208 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	125 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	125 mg/kg bw/day
(2-Methoxymethyleth-	Workers	Inhalation	Long-term systemic effects	308 mg/m3

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oxy)propanol				
	Consumers	Inhalation	Long-term systemic effects	37.2 mg/m3
	Workers	Dermal	Long-term systemic effects	283 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	121 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	36 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
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
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
	Intermittent use/release	2.25 mg/l
Rutile (TiO <sub>2</sub> )	Soil	100 mg/kg dry weight (d.w.)
	Marine water	1 mg/l
	Fresh water	0.127 mg/l
	Marine sediment	100 mg/kg dry weight (d.w.)
	Fresh water sediment	1000 mg/kg dry weight (d.w.)

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	Sewage treatment plant	100 mg/l
	Intermittent use/release	0.61 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
butyl glycolate	Soil	0.0112 mg/kg dry weight (d.w.)
	Marine water	0.005 mg/l
	Fresh water	0.05 mg/l
	Marine sediment	0.0203 mg/kg dry weight (d.w.)
	Fresh water sediment	0.203 mg/kg dry weight (d.w.)
	Sewage treatment plant	232 mg/l
	Intermittent use/release	0.5 mg/l
2-butoxyethyl acetate	Soil	0.415 mg/kg dry weight (d.w.)
	Marine water	0.0304 mg/l
	Fresh water	0.304 mg/l
	Marine sediment	0.203 mg/kg dry weight (d.w.)
	Fresh water sediment	2.03 mg/kg dry weight (d.w.)
	Sewage treatment plant	90 mg/l
	Intermittent use/release	0.56 mg/l
(2-Methoxymethylethoxy)propanol	Soil	2.74 mg/kg dry weight (d.w.)
	Marine water	1.9 mg/l
	Fresh water	19 mg/l
	Marine sediment	7.02 mg/kg dry weight (d.w.)
	Fresh water sediment	70.2 mg/kg dry weight (d.w.)
	Sewage treatment plant	4168 mg/l
	Intermittent use/release	190 mg/l
titanium dioxide	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.)
	Sewage treatment plant	100 mg/l
	Intermittent use/release	0.193 mg/l
2-methylpropan-1-ol	Soil	0.0765 mg/kg dry

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		weight (d.w.)
	Marine water	0.04 mg/l
	Fresh water	0.4 mg/l
	Marine sediment	0.156 mg/kg dry weight (d.w.)
	Fresh water sediment	1.56 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Intermittent use/release	11 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 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.

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

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

Appearance : liquid  
 Colour : Different colour shades  
 Odour : solvent-like  
 Odour Threshold : No data available

pH : Not applicable

Melting point/freezing point : -78.0 °C

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Boiling point/boiling range	: (calculation method (principal components, lowest value)) 118 °C (calculation method (principal components, lowest value))
Flash point	: 26 °C Method: ISO 3679, closed cup
Flammability (solid, gas)	: Static-accumulating flammable liquid., Combustible Solids
Upper explosion limit / Upper flammability limit	: 11.3 %(V) (calculation method (principal components, highest value))
Lower explosion limit / Lower flammability limit	: 1.2 %(V) (calculation method (principal components, highest value))
Vapour pressure	: < 1,100 hPa (calculation method (principal components, highest value)) (50 °C)
Relative vapour density	: No data available
Relative density	: No data available
Density	: 0.915 - 1.145 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	: immiscible, partly soluble
Solubility in other solvents	: Description: miscible with most organic solvents
Partition coefficient: n-octanol/water	: log Pow: 1.81 (calculation method (principal components, highest value))
Auto-ignition temperature	: 343 °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 <sup>2</sup> /s (40 °C)
Flow time	: 80 - 90 s at 20 °C Cross section: 4 mm Method: DIN 53211
Explosive properties	: Not applicable
Oxidizing properties	: Sustains combustion

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**9.2 Other information**

No data available

**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 toxicological effects****Acute toxicity**

Not classified based on available information.

**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
Acute dermal toxicity	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

**Components:****n-butyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): &gt;= 10,760 mg/kg

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Date of first issue: 19.07.2023Acute dermal toxicity : LD50 (Rabbit):  $\geq 5,000$  mg/kg**butan-1-ol:**

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

LD50 Oral (Rat):  $> 2,000$  mg/kgAcute inhalation toxicity : LC50 (Rat):  $> 5$  mg/l  
Test atmosphere: vapourAcute dermal toxicity : LD50 (Rabbit):  $> 2,000$  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.

**2-butoxyethyl acetate:**

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

LD50 Oral (Rat):  $\geq 2,400$  mg/kgAcute inhalation toxicity : LC50 (Rat):  $\geq 50$  mg/l  
Exposure time: 2 h  
Test atmosphere: vapour

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

LD50 (Rabbit):  $\geq 1,500$  mg/kg**2-methylpropan-1-ol:**Acute oral toxicity : LD50 Oral (Rat):  $\geq 2,460$  mg/kgAcute dermal toxicity : LD50 (Rabbit):  $\geq 3,400$  mg/kg**formaldehyde:**

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

Acute inhalation toxicity : Test atmosphere: vapour  
Assessment: The component/mixture is toxic after short term inhalation.

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

**maleic anhydride:**

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

**(2-Methoxymethylethoxy)propanol:**

Acute oral toxicity : Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Remarks : Extremely corrosive and destructive to tissue.

**Components:****butan-1-ol:**

Result : irritating

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

Result : irritating

**2-methylpropan-1-ol:**

Result : irritating

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

Result : irritating

**formaldehyde:**

Result : Corrosive after 3 minutes to 1 hour of exposure

**maleic anhydride:**

Result : Corrosive after 3 minutes to 1 hour of exposure

**Serious eye damage/eye irritation**

Causes serious eye damage.



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**Product:**

Remarks : May cause irreversible eye damage.

**Components:****butan-1-ol:**

Result : Corrosive

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

Result : Eye irritation

**butyl glycollate:**

Result : Corrosive

**2-methylpropan-1-ol:**

Result : Corrosive

**Respiratory or skin sensitisation****Skin sensitisation**

May cause an allergic skin reaction.

**Respiratory sensitisation**

Not classified based on available information.

**Product:**

Remarks : Causes sensitisation.

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

Result : Probability or evidence of skin sensitisation in humans

**formaldehyde:**

Result : Probability or evidence of skin sensitisation in humans

**maleic anhydride:**

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

Result : Probability or evidence of skin sensitisation in humans

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****formaldehyde:**

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Germ cell mutagenicity- Assessment : In vitro tests showed mutagenic effects

**Carcinogenicity**

Not classified based on available information.

**Components:****formaldehyde:**

Carcinogenicity - Assessment : Possible human carcinogen

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

**Components:****butyl glycollate:**

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

**STOT - single exposure**

May cause drowsiness or dizziness.

**Components:****n-butyl acetate:**

Assessment : May cause drowsiness or dizziness.

**butan-1-ol:**

Assessment : May cause drowsiness or dizziness.

Assessment : May cause respiratory irritation.

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

Assessment : May cause respiratory irritation.

**hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Assessment : May cause drowsiness or dizziness.

**2-methylpropan-1-ol:**

Assessment : May cause drowsiness or dizziness.

Assessment : May cause respiratory irritation.

**STOT - repeated exposure**

Not classified based on available information.

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

Assessment : May cause damage to organs through prolonged or repeated

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exposure.

**maleic anhydride:**

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

**Aspiration toxicity**

Not classified based on available information.

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

May be fatal if swallowed and enters airways.

**hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, <2% 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.

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**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 hToxicity to microorganisms : IC50 (Tetrahymena pyriformis): 356 mg/l  
Exposure time: 40 h**butan-1-ol:**

Toxicity to fish : LC50 (Fish): &gt; 1,000 mg/l

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

Toxicity to microorganisms : EC50 (Bacteria): &gt; 1,000 mg/l

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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

**2-butoxyethyl acetate:**

Toxicity to fish : LC50 (Fish):  $\geq 31$  mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)):  $\geq 142.5$  mg/l  
Exposure time: 48 h

Toxicity to microorganisms : EC50 (Bacteria):  $\geq 2,800$  mg/l

**hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, <2% aromatics:****Ecotoxicology Assessment**

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

**2-methylpropan-1-ol:**

Toxicity to fish : LC50 (Fish):  $> 100$  mg/l  
Exposure time: 96 h

**maleic anhydride:**

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

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l  
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 301D

Stability in water : Degradation half life: 78 d  
pH: 8  
Remarks: Hydrolyses slowly.

Photodegradation : Remarks: Decomposes rapidly in contact with light.

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

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Biodegradability : Remarks: Readily biodegradable.

Photodegradation : Remarks: Decomposes rapidly in contact with light.

**2-butoxyethyl acetate:**

Biodegradability : Result: Biodegradable

**2-methylpropan-1-ol:**

Biodegradability : Result: Biodegradable

**maleic anhydride:**

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

Stability in water : Remarks: Hydrolyses readily.

Photodegradation :

**12.3 Bioaccumulative potential****Components:****n-butyl acetate:**

Bioaccumulation : Bioconcentration factor (BCF): 15  
Remarks: Bioaccumulation is unlikely.

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

**butan-1-ol:**

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

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

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

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

**2-butoxyethyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 1.51

**2-methylpropan-1-ol:**

Partition coefficient: n-octanol/water : log Pow: 0.79

**formaldehyde:**

Partition coefficient: n-octanol/water : log Pow: 0.35

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**maleic anhydride:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

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

**(2-Methoxymethylethoxy)propanol:**

Partition coefficient: n-octanol/water : log Pow: -0.064

**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  
Remarks: Moderately mobile in soils  
The product evaporates from soil.Stability in soil : Dissipation time: 23 d  
Percentage dissipation: 50 % (DT50)**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 : No data available

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**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.

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**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)**

- 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

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2 Chemical safety assessment**

A Chemical Safety Assessment is not required for this substance.

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**SECTION 16: Other information****Full text of H-Statements**

H226	: Flammable liquid and vapour.
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.
H331	: Toxic if inhaled.
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.
H341	: Suspected of causing genetic defects.
H350	: May cause cancer.
H361	: Suspected of damaging fertility or the unborn child.
H372	: Causes damage to organs through prolonged or repeated exposure if inhaled.
H373	: May cause damage to organs through prolonged or repeated exposure.
H412	: Harmful to aquatic life with long lasting effects.

**Full text of other abbreviations**

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Muta.	: Germ cell mutagenicity
Repr.	: Reproductive toxicity
Resp. Sens.	: Respiratory sensitisation
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation

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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
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
2019/1831/EU	:	Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
2004/37/EC / STEL	:	Short term exposure limit
2004/37/EC / TWA	:	Long term exposure limit
2019/1831/EU / TWA	:	Limit Value - eight hours
2019/1831/EU / STEL	:	Short term exposure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - 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; IECS - 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
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**Classification procedure:**

Based on product data or assessment

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Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 2	H361	Calculation method
STOT SE 3	H336	Calculation method

366923; 366935; 366971; 400207; 400262; 401108; 401924;  
401951; 401983; 418200; 418201; 418202; 418203; 418204;  
418205; 418206; 418207; 418208; 418209; 418210; 418211;  
418212; 418213; 418214; 418215; 418216; 418217; 418218;  
418219; 418220; 418221; 418222; 418223; 418224; 418225;  
418226; 418227; 418228; 418229; 418230; 418231; 418232;  
418233; 418234; 418235; 418236; 418237; 418238; 418239;  
418241; 418242; 418243; 418244; 418245; 418246; 418247;  
418248; 418249; 418250; 418251; 418252; 418253; 418255;  
418445; 418446; 418479; 418480; 418481; 418482; 418485;  
418486; 418923; 418924; 419220; 419223; 419593; 419844;  
419845; 419846; 419847; 419848; 419849; 478654; 478964;  
478984; 479010; 479019; 479020; 480909; 481596; 481598

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