

**MOBIHEL CLEARCOAT MATT**

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

Trade name : MOBIHEL CLEARCOAT MATT  
Product code : 47056422

**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**

Ambulance (972) 101  
Israel Poison Information Center +972 4 854 19 00

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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.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Central nervous	H336: May cause drowsiness or dizziness.

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system

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

H335: May cause respiratory irritation.

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

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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	-  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	-  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 01-0000015075-76	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0.25 - < 1
Reaction mass of bis(1,2,2,6,6-	1065336-91-5	Skin Sens. 1; H317	>= 0.25 - < 1

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pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	915-687-0 01-2119491304-40	Repr. 2; H361f Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
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	>= 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)	>= 0.001 - < 0.1
Substances with a workplace exposure limit :			
silicon dioxide, chemically prepared	7631-86-9  231-545-4 01-2119379499-16		>= 1 - < 10

## 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.

### 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.  
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.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.

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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.

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**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.

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

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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 <sup>3</sup>	2019/1831/EU
	Further information: Indicative			
		TWA	50 ppm 241 mg/m <sup>3</sup>	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 <sup>3</sup>	IL OEL
		TWA	50 ppm 221 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	20 ppm	ACGIH
Silicon dioxide	7631-86-9	TWA (Respirable dust)	0.1 mg/m <sup>3</sup>	2004/37/EC
	Further information: Carcinogens or mutagens			
2-methoxy-1-methylethyl acetate	108-65-6	STEL	100 ppm 550 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm	2000/39/EC

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			275 mg/m <sup>3</sup>	
	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 <sup>3</sup>	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 <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
	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/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	65.3 mg/m <sup>3</sup>



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	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>
	Workers	Inhalation	Long-term local effects	221 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	14.8 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	260 mg/m <sup>3</sup>
	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
Silicon dioxide	Workers	Inhalation	Long-term systemic effects	4 mg/m <sup>3</sup>
Hydrocarbons, C9 aromatics	Workers	Inhalation	Long-term systemic effects	150 mg/m <sup>3</sup>
	Workers	Oral	Long-term systemic effects	150 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term exposure	32 mg/m <sup>3</sup>
	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/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	550 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	33 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	33 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	796 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	320 mg/kg bw/day
	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

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		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 problems.

## Hand protection

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

Remarks : 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 concen-

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tration 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 flammability limit	: 7.5 %(V) (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 <sup>3</sup>
Solubility(ies)	

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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))
Auto-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 <sup>2</sup> /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

**9.2 Other information**

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

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**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.
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**10.4 Conditions to avoid**

Conditions to avoid	:	Heat, flames and sparks.
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**10.5 Incompatible materials**

Materials to avoid	:	Incompatible with strong acids and bases.
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**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 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):  $\geq$  10,760 mg/kg

Acute 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/kg

Acute 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/kg

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Test atmosphere: vapour

LC0 (Rat): 2000 ppm  
Exposure time: 3 h

Acute dermal toxicity : LD50 (Rabbit): > > 2,000 mg/kg

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

**Skin corrosion/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:**

Result : irritating

**maleic anhydride:**

Result : Corrosive after 3 minutes to 1 hour of exposure

**Serious eye damage/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.

**Respiratory sensitisation**

Not classified based on available information.

**Product:**

Remarks : Causes sensitisation.

**Components:****mixture of benzotriazole:**

Result : Probability or evidence of skin sensitisation in humans

**mixture of sterically composed sebacates:**

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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

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**

Not classified based on available information.

**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.

**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.

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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.

**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 hToxicity to microorganisms : IC50 (Tetrahymena pyriformis): 356 mg/l  
Exposure time: 40 h**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Toxicity to fish : LC50 (Fish): &gt;= 1 - 10 mg/l



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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):  $\geq 9.2$  mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)):  $\geq 3.2$  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 aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

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**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:**

Biodegradability : Remarks: Readily biodegradable.

Photodegradation : Remarks: Decomposes rapidly in contact with light.

**2-methoxy-1-methylethyl acetate:**

Biodegradability : Remarks: Readily 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

**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

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Date of first issue: 28.11.2023**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 : Remarks: 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 environ-  
mental 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)**Hydrocarbons, C9 aromatics:**Mobility : Medium: Air  
Content: 92.9 %: Medium: Water  
Content: 3.5 %: Medium: Soil  
Content: 1.9 %: Medium: Sediment  
Content: 1.8 %Distribution among environ-  
mental compartments : Koc: 1.71 - 14.70  
Remarks: Mobile in soils

Remarks: The product is insoluble and floats on water.

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**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.

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**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.  
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**

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

**RID**  
 Packing group : III  
 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

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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

**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.

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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  
 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  
 ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
 ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)  
 IL BEI : Israel. Safety at Work Regulations - Annex III Biological Exposure Indices  
 IL OEL : Israel. Safety at Work Regulations (Environmental monitoring and biological monitoring of workers)  
 2000/39/EC / TWA : Limit Value - eight hours  
 2000/39/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  
 ACGIH / TWA : 8-hour, time-weighted average  
 ACGIH / STEL : Short-term exposure limit  
 IL OEL / TLV-TWA : Threshold Limit Value - Time Weighted (TLV-TWA)  
 IL OEL / TLV-C : Threshold Limit Value - Ceiling (TLV-C)

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

**Classification procedure:**

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

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material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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