

**Trade name:** einZA Epoxi-Spezialverdünnung**Product no.:** 6300440**Current version :** 5.0.2, issued: 03.01.2024**Replaced version:** 5.0.1, issued: 14.03.2023**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

**einZA Epoxi-Spezialverdünnung****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

decorative paints/finishes

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**

einZA Farben GmbH &amp; Co KG

Junkersstraße 13

30179 Hannover

Telephone no. +49 (0)511 67490-0

Fax no. +49 (0)511 67490-20

e-mail info@einZA.com

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 2; H411

Asp. Tox. 1; H304

Eye Dam. 1; H318

Flam. Liq. 3; H226

Skin Irrit. 2; H315

STOT SE 3; H335

STOT SE 3; H336

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS02



GHS05



GHS07



GHS08



GHS09

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

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Hydrocarbons, C9, aromatics  
n-butyl acetate  
butan-1-ol

**Hazard statement(s)**

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statement(s)**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/eye protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P331 Do NOT induce vomiting.  
P370+P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.  
P391 Collect spillage.  
P405 Store locked up.  
P501 Dispose of contents/container to a facility in accordance with local and national regulations.

**2.3 Other hazards**

PBT assessment  
The components of this product are not considered to be a PBT.  
vPvB assessment  
The components of this product are not considered to be a vPvB.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures**

**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	<b>Hydrocarbons, C9, aromatics</b>	<b>pls. refer to footnote (2)</b>	
	64742-95-6 918-668-5 649-356-00-4 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H335 STOT SE 3; H336 Aquatic Chronic 2; H411 Asp. Tox. 1; H304 EUH066	>= 50.00 - < 70.00 wt%
2	<b>n-butyl acetate</b>		
	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	EUH066 Flam. Liq. 3; H226 STOT SE 3; H336	>= 25.00 - < 50.00 wt%
3	<b>butan-1-ol</b>		

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	71-36-3 200-751-6 603-004-00-6 01-2119484630-38	Acute Tox. 4; H302 Eye Dam. 1; H318 Flam. Liq. 3; H226 Skin Irrit. 2; H315 STOT SE 3; H335 STOT SE 3; H336	>= 10.00 - < 25.00	wt%
4	<b>2-methoxy-1-methylethyl acetate</b>			
	108-65-6 203-603-9 607-195-00-7 01-2119475791-29	Flam. Liq. 3; H226 STOT SE 3; H336	>= 5.00 - < 10.00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	P	-	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

#### After inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

#### After skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

#### After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

#### After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

No data available.

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Alcohol resistant foam, CO<sub>2</sub>, powders, water spray

#### Unsuitable extinguishing media

water jet.

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

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Toxic pyrolysis products; Exposure to decomposition products may cause a health hazard.

### 5.3 Advice for firefighters

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses. Appropriate breathing apparatus may be required.

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## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

Is not allowed to be released into the sewerage or water courses. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

### 6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

### 6.4 Reference to other sections

No data available.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Avoid the inhalation of dust, particulates and spray mist arising from the application of this mixture. Dry sanding, flame cutting and/or welding of the dry paint film may give rise to dust and/or hazardous fumes. Wet [sanding]/[flattening] should be used wherever possible. Avoid inhalation of dust from sanding. For personal protection see section 8.

#### General protective and hygiene measures

Avoid skin and eye contact. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

#### Advice on protection against fire and explosion

Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

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

#### Technical measures and storage conditions

Comply with legal health and safety regulations; Prevent unauthorised access. Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight. Keep away from sources of ignition. No smoking.

#### Requirements for storage rooms and vessels

Always keep in containers of same material as the original one. Never use pressure to empty: container is not a pressure vessel. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed. Observe label precautions.

#### Incompatible products

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

### 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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**Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	n-butyl acetate	123-86-4	204-658-1
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Butyl acetate			
	WEL short-term (15 min reference period)	966	mg/m <sup>3</sup> 200 ppm
	WEL long-term (8-hr TWA reference period)	724	mg/m <sup>3</sup> 150 ppm
<b>EU 2019/1831</b>			
n-Butyl acetate			
	WEL short-term (15 min reference period)	723	mg/m <sup>3</sup> 150 ppm
	WEL long-term (8-hr TWA reference period)	241	mg/m <sup>3</sup> 50 ppm
2	butan-1-ol	71-36-3	200-751-6
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Butan-1-ol			
	WEL short-term (15 min reference period)	154	mg/m <sup>3</sup> 50 ppm
	Comments	Sk	
3	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
1-Methoxypropylacetate			
	WEL short-term (15 min reference period)	548	mg/m <sup>3</sup> 100 ppm
	WEL long-term (8-hr TWA reference period)	274	mg/m <sup>3</sup> 50 ppm
	Comments	Sk	
<b>2000/39/EC</b>			
2-Methoxy-1-methylethylacetate			
	WEL short-term (15 min reference period)	550	mg/m <sup>3</sup> 100 ppm
	WEL long-term (8-hr TWA reference period)	275	mg/m <sup>3</sup> 50 ppm
	Skin resorption / sensibilisation	Skin	

**DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	Hydrocarbons, C9, aromatics			64742-95-6 918-668-5
	dermal	Long term (chronic)	systemic	12.5 mg/kg/day
	inhalative	Long term (chronic)	systemic	151 mg/m <sup>3</sup>
2	n-butyl acetate			123-86-4 204-658-1
	dermal	Long term (chronic)	systemic	11 mg/kg/day
	dermal	Short term (acut)	systemic	11 mg/kg/day
	inhalative	Long term (chronic)	systemic	300 mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	600 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	300 mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	600 mg/m <sup>3</sup>
3	butan-1-ol			71-36-3 200-751-6
	inhalative	Long term (chronic)	local	310 mg/m <sup>3</sup>
4	2-methoxy-1-methylethyl acetate			108-65-6 203-603-9
	dermal	Long term (chronic)	systemic	796 mg/kg/day
	inhalative	Long term (chronic)	systemic	275 mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	550 mg/m <sup>3</sup>

**DNEL value (consumer)**

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	Hydrocarbons, C9, aromatics			64742-95-6 918-668-5
	oral	Long term (chronic)	systemic	7.5 mg/kg/day

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	dermal	Long term (chronic)	systemic	7.5	mg/kg/day
	inhalative	Long term (chronic)	systemic	32	mg/m <sup>3</sup>
2	<b>n-butyl acetate</b>			<b>123-86-4 204-658-1</b>	
	oral	Long term (chronic)	systemic	2	mg/kg/day
	oral	Short term (acut)	systemic	2	mg/kg/day
	dermal	Long term (chronic)	systemic	6	mg/kg/day
	dermal	Short term (acut)	systemic	6	mg/kg/day
	inhalative	Long term (chronic)	systemic	35.7	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	300	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	35.7	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	300	mg/m <sup>3</sup>
3	<b>butan-1-ol</b>			<b>71-36-3 200-751-6</b>	
	oral	Long term (chronic)	systemic	1.562	mg/kg/day
	dermal	Long term (chronic)	systemic	3.125	mg/kg/day
	inhalative	Long term (chronic)	systemic	55.357	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	155	mg/m <sup>3</sup>
4	<b>2-methoxy-1-methylethyl acetate</b>			<b>108-65-6 203-603-9</b>	
	oral	Long term (chronic)	systemic	36	mg/kg/day
	oral	Short term (acut)	systemic	500	mg/kg/day
	dermal	Long term (chronic)	systemic	320	mg/kg/day
	inhalative	Long term (chronic)	systemic	33	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	33	mg/m <sup>3</sup>

## PNEC values

No	Substance name	CAS / EC no	
	ecological compartment	Type	Value
1	<b>n-butyl acetate</b>		<b>123-86-4 204-658-1</b>
	water	fresh water	0.18 mg/L
	water	marine water	0.018 mg/L
	water	Aqua intermittent	0.36 mg/L
	water	fresh water sediment	0.981 mg/kg dry weight
	water	marine water sediment	0.0981 mg/kg dry weight
	soil	-	0.0903 mg/kg
	sewage treatment plant	-	35.6 mg/L
2	<b>butan-1-ol</b>		<b>71-36-3 200-751-6</b>
	water	fresh water	0.082 mg/L
	water	marine water	0.008 mg/L
	water	Aqua intermittent	2.25 mg/L
	water	fresh water sediment	0.324 mg/kg dry weight
	water	marine water sediment	0.032 mg/kg dry weight
	soil	-	0.017 mg/kg dry weight
	sewage treatment plant	-	2476 mg/L
3	<b>2-methoxy-1-methylethyl acetate</b>		<b>108-65-6 203-603-9</b>
	water	fresh water	0.635 mg/L
	water	marine water	0.064 mg/L
	water	fresh water sediment	3.29 mg/kg
	with reference to: dry weight		
	water	marine water sediment	0.329 mg/kg
	with reference to: dry weight		
	soil	-	0.29 mg/kg

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	with reference to: dry weight		
	sewage treatment plant	-	100 mg/L

**8.2 Exposure controls**

**Appropriate engineering controls**

Provide good ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

**Personal protective equipment**

**Respiratory protection**

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. In case of brush application: Filter A2. When applied by spraying: Filter A2P2. (DIN EN 14387)

**Eye / face protection**

Wear safety goggles to protect against splashes. Safety glasses with side protection shield (EN 166)

**Hand protection**

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	In case of short-term contact / splash protection: nitrile rubber		
Material thickness	>	0.4	mm
Breakthrough time	>	120	min
Appropriate Material	In case of prolonged exposure: nitrile rubber		
Material thickness	>	0.4	mm
Breakthrough time	>	480	min

**Other**

Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.

**Environmental exposure controls**

Do not allow to enter drains or water courses.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

<b>State of aggregation</b>	
liquid	
<b>Form</b>	
liquid	
<b>Colour</b>	
according to product name	
<b>Odour</b>	
like solvents	
<b>pH value</b>	
No data available	
<b>Boiling point / boiling range</b>	
Value	> 120 °C
Reference substance	solvent mixture
<b>Melting point/freezing point</b>	
No data available	
<b>Decomposition temperature</b>	

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No data available			
<b>Flash point</b>			
Value	26	- 28	°C
Method	closed cup		
<b>Ignition temperature</b>			
Value	>	200	°C
Reference substance	solvent mixture		
<b>Oxidising properties</b>			
Not applicable			
<b>Flammability</b>			
Not applicable			
<b>Lower explosion limit</b>			
Value	>	0.6	% vol
Reference substance	solvent mixture		
<b>Upper explosion limit</b>			
Value	<	7.5	% vol
Reference substance	solvent mixture		
<b>Vapour pressure</b>			
Value	<	100	hPa
Reference temperature		50	°C
Reference substance	solvent mixture		
<b>Relative vapour density</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	0.86	- 0.86	g/cm <sup>3</sup>
Reference temperature		20	°C
Method	DIN 51757		
<b>Solubility in water</b>			
Comments	immiscible		
<b>Solubility</b>			
No data available			
<b>Partition coefficient n-octanol/water (log value)</b>			
No	Substance name	CAS no.	EC no.
1	n-butyl acetate	123-86-4	204-658-1
	log Pow		2.3
	Reference temperature		25 °C
	Method	OECD 117	
	Source	ECHA	
2	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
	log Pow		1.2
	Reference temperature		20 °C
	Method	OECD 117	
	Source	ECHA	
<b>Kinematic viscosity</b>			
Value	11	- 12	sec
Reference temperature		20	°C
Method	DIN EN 2431 (4 mm)		
<b>Solvent separation test</b>			
Value	<	3	%
Reference temperature		20	°C



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**Particle characteristics**

No data available

**9.2 Other information**

**Other information**

No data available.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

Stable under recommended storage and handling conditions (See section 7).

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

**10.4 Conditions to avoid**

Heat, naked flames and other ignition sources.

**10.5 Incompatible materials**

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

**10.6 Hazardous decomposition products**

None if stored, handled and transported properly. In case of fire: see section 5.

**SECTION 11: Toxicological information**

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

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	einZA Epoxi-Spezialverdünnung
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
LD50	>	3492	mg/kg bodyweight
Species	rat		
Source	ECHA		
2	n-butyl acetate	123-86-4	204-658-1
LD50		10760	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		
3	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
LD50		5155	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
LD50	>	3160	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

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2	n-butyl acetate	123-86-4	204-658-1
LD50	>	14112	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
3	butan-1-ol	71-36-3	200-751-6
LD50	appr.	3430	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
4	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		

**Acute inhalational toxicity**

No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
LC50	>	6.193	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	butan-1-ol	71-36-3	200-751-6
LC50	>	17.76	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Method	OECD 403		
Source	ECHA		

**Skin corrosion/irritation**

No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	low-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	n-butyl acetate	123-86-4	204-658-1
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
3	butan-1-ol	71-36-3	200-751-6
Species	rabbit		
Source	ECHA		
Evaluation	irritant		
4	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		

**Serious eye damage/irritation**

No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
Species	rabbit		
Method	OECD 405		
Source	ECHA		

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Evaluation	non-irritant		
<b>2</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
<b>3</b>	<b>butan-1-ol</b>	<b>71-36-3</b>	<b>200-751-6</b>
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	strongly irritant		
<b>4</b>	<b>2-methoxy-1-methylethyl acetate</b>	<b>108-65-6</b>	<b>203-603-9</b>
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Hydrocarbons, C9, aromatics</b>	<b>64742-95-6</b>	<b>918-668-5</b>
Route of exposure		Skin	
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
<b>2</b>	<b>2-methoxy-1-methylethyl acetate</b>	<b>108-65-6</b>	<b>203-603-9</b>
Route of exposure		Skin	
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Hydrocarbons, C9, aromatics</b>	<b>64742-95-6</b>	<b>918-668-5</b>
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>2</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>3</b>	<b>butan-1-ol</b>	<b>71-36-3</b>	<b>200-751-6</b>
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>4</b>	<b>2-methoxy-1-methylethyl acetate</b>	<b>108-65-6</b>	<b>203-603-9</b>
Type of examination		in vitro gene mutation study in bacteria	
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Hydrocarbons, C9, aromatics</b>	<b>64742-95-6</b>	<b>918-668-5</b>
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>2</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>3</b>	<b>butan-1-ol</b>	<b>71-36-3</b>	<b>200-751-6</b>
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Carcinogenicity			
No data available			

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STOT - single exposure	
No data available	

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	n-butyl acetate	123-86-4	204-658-1
Route of exposure		inhalational	
NOAEC		500	ppm
Duration of exposure		90	day(s)
Species	rat		
Method	EPA OTS 798.2450		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
Route of exposure		oral	
Species	rats (male/female)		
Method	OECD 422		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Aspiration hazard	
No data available	

Delayed and immediate effects as well as chronic effects from short and long-term exposure	
<p>Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.</p>	

## 11.2 Information on other hazards

### Endocrine disrupting properties

No data available.

### Other information

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
LL50		9.2	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
2	n-butyl acetate	123-86-4	204-658-1
LC50		18	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	butan-1-ol	71-36-3	200-751-6
LC50		1376	mg/l
Duration of exposure		96	h

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Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
<b>4</b>	<b>2-methoxy-1-methylethyl acetate</b>	<b>108-65-6</b>	<b>203-603-9</b>
LC50	100	- 180	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		

<b>Toxicity to fish (chronic)</b>			
No data available			

<b>Toxicity to Daphnia (acute)</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>Hydrocarbons, C9, aromatics</b>	<b>64742-95-6</b>	<b>918-668-5</b>
EL50		3.2	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>2</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
EC50		44	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>butan-1-ol</b>	<b>71-36-3</b>	<b>200-751-6</b>
EC50		1328	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>4</b>	<b>2-methoxy-1-methylethyl acetate</b>	<b>108-65-6</b>	<b>203-603-9</b>
EC50	>	500	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EU Method C.2		
Source	ECHA		

<b>Toxicity to Daphnia (chronic)</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
NOEC		23	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
with reference to	CAS 110-19-0		
Method	OECD 211		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>2</b>	<b>butan-1-ol</b>	<b>71-36-3</b>	<b>200-751-6</b>
NOEC		4.1	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
<b>3</b>	<b>2-methoxy-1-methylethyl acetate</b>	<b>108-65-6</b>	<b>203-603-9</b>
NOEC	>=	100	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

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Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
EL50		2.9	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
2	butan-1-ol	71-36-3	200-751-6
EC50		225	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
3	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
EC50		>	1000
Duration of exposure		96	h
Species	Raphidocelis subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
EC50		>	99
Duration of exposure		10	min
Species	activated sludge		
Method	OECD 209		
Source	ECHA		
2	n-butyl acetate	123-86-4	204-658-1
IC50		356	mg/l
Duration of exposure		40	h
Species	Tetrahymena pyriformis (Protozoa)		
Source	ECHA		
3	butan-1-ol	71-36-3	200-751-6
EC50		4390	mg/l
Duration of exposure		17	h
Species	Pseudomonas putida		
Method	DIN 38412		
Source	ECHA		
4	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
EC10		>	1000
Duration of exposure		30	min
Species	activated sludge		
Method	OECD 209		
Source	ECHA		

## 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
Type	BSB		
Value		78	%
Duration		28	d
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
2	n-butyl acetate	123-86-4	204-658-1
Type	aerobic biodegradation		
Value		83	%

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Duration		28	day(s)
Method	OECD 301 D		
Source	ECHA		
Evaluation	readily biodegradable		
<b>3</b>	<b>butan-1-ol</b>	<b>71-36-3</b>	<b>200-751-6</b>
Type	DOC decrease		
Value		92	%
Duration		20	day(s)
Method	OECD		
Source	ECHA		
Evaluation	readily biodegradable		
<b>4</b>	<b>2-methoxy-1-methylethyl acetate</b>	<b>108-65-6</b>	<b>203-603-9</b>
Type	aerobic biodegradation		
Value		83	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		

Abiotic Degradation			
No	Substance name	CAS no.	EC no.
1	n-butyl acetate	123-86-4	204-658-1
Type	Photolysis		
Half-life		3.3	day(s)
Reference temperature		25	°C
Source	ECHA		

### 12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	n-butyl acetate	123-86-4	204-658-1
BCF		15.3	
Method	Calculation model used (Q)SAR		
Source	ECHA		

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	n-butyl acetate	123-86-4	204-658-1
log Pow		2.3	
Reference temperature		25	°C
Method	OECD 117		
Source	ECHA		
<b>2</b>	<b>2-methoxy-1-methylethyl acetate</b>	<b>108-65-6</b>	<b>203-603-9</b>
log Pow		1.2	
Reference temperature		20	°C
Method	OECD 117		
Source	ECHA		

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	The components of this product are not considered to be a vPvB.

### 12.6 Endocrine disrupting properties

No data available.

### 12.7 Other adverse effects

No data available.

### 12.8 Other information

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**Other information**

Do not allow to enter drains or water courses.

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

Waste code	08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
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The listed waste code numbers, according to the European Waste Catalogue, are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company. Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

**Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer. Empty containers must be scrapped or reconditioned.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

Class	3
Classification code	F1
Packing group	III
Hazard identification no.	30
UN number	UN1263
Proper shipping name	PAINT RELATED MATERIAL
Tunnel restriction code	D/E
Label	3
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.2 Transport IMDG**

Class	3
Packing group	III
UN number	UN1263
Proper shipping name	PAINT RELATED MATERIAL
Technical name	Hydrocarbons, C9, aromatics
EmS	F-E+S-E
Label	3
Marine pollutant mark	Symbol "fish and tree"

**14.3 Transport ICAO-TI / IATA**

Class	3
Packing group	III
UN number	UN1263
Proper shipping name	Paint related material
Label	3

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

Transport within the user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information**



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

### EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)				
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.				
REACH candidate list of substances of very high concern (SVHC) for authorisation				
According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.				
Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES				
The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.				No 3, 40
The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.				
No	Substance name	CAS no.	EC no.	No
1	butan-1-ol	71-36-3	200-751-6	75
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances				
This product is subject to Part I of Annex I, risk category:				E2, P5c
If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.				
Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)				
VOC content		100.00 %		

### National regulations

#### Other national regulations

Adhere to national regulations for proper handling and use of hazardous materials. Use appropriate personal protective equipment.

## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other information

### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

EUH066 Repeated exposure may cause skin dryness or cracking.  
H302 Harmful if swallowed.

### Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

P The harmonised classification as a carcinogen applies unless the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen, in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

### Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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