

Trade name: einzA Nitroverdünnung

Product no.: 0100242

Current version : 4.0.0, issued: 21.04.2021

Replaced version: 3.1.0, issued: 07.08.2020

Region: GB

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

### 1.1 Product identifier

Trade name

**einzA Nitroverdünnung**

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

Relevant identified uses of the substance or mixture

Thinner

Uses advised against

No data available.

### 1.3 Details of the supplier of the safety data sheet

Address

 einzA Farben GmbH & 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 3; H412

Asp. Tox. 1; H304

Eye Irrit. 2; H319

Flam. Liq. 2; H225

Skin Irrit. 2; H315

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



GHS07



GHS08

Signal word

Danger

Hazardous component(s) to be indicated on label:

ethyl-acetate

acetone

Hazard statement(s)

H225

Highly flammable liquid and vapour.

H304

May be fatal if swallowed and enters airways.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

H412

Harmful 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.

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Product no.: 0100242

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Replaced version: 3.1.0, issued: 07.08.2020

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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.  
 P301+P310 IF SWALLOWED: 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.  
 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>ethyl-acetate</b>			
	141-78-6 205-500-4 607-022-00-5 01-2119475103-46	EUH066 Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	>= 25.00 - < 50.00	wt%
2	<b>acetone</b>			
	67-64-1 200-662-2 606-001-00-8 01-2119471330-49	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	>= 25.00 - < 50.00	wt%
3	<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	>= 10.00 - < 25.00	wt%
4	<b>Reaction mass of xylene and ethylbenzene</b>			
	- 905-588-0 - 01-2119539452-40	Acute Tox. 4; H312 Acute Tox. 4; H332 Asp. Tox. 1; H304 Eye Irrit. 2; H319 Flam. Liq. 3; H226 Skin Irrit. 2; H315 STOT SE 3; H335 STOT RE 2; H373	>= 5.00 - < 10.00	wt%
5	<b>ethanol</b>			
	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 5.00 - < 10.00	wt%
6	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>			
	64742-49-0 931-254-9 - 01-2119484651-34	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	< 5.00	wt%
7	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>			
	- 927-510-4 - 01-2119475515-33	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336	< 5.00	wt%
8	<b>propan-2-ol</b>			
	67-63-0 200-661-7 603-117-00-0 01-2119457558-25	Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	< 5.00	wt%

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Product no.: 0100242

Current version : 4.0.0, issued: 21.04.2021

Replaced version: 3.1.0, issued: 07.08.2020

Region: GB

9	<b>toluene</b> 108-88-3 203-625-9 601-021-00-3 01-2119471310-51	Asp. Tox. 1; H304 Flam. Liq. 2; H225 Repr. 2; H361d Skin Irrit. 2; H315 STOT RE 2; H373i STOT SE 3; H336	< 2.50	wt%
10	<b>butan-1-ol</b> 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	< 2.50	wt%

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

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
5	-	Eye Irrit. 2; H319: C >= 50%	-	-

## 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.

## 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

Trade name: einzA Nitroverdünnung

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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****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	<b>ethyl-acetate</b>	<b>141-78-6</b>	<b>205-500-4</b>
	<b>2017/164/EU</b>		
	Ethyl acetate		
	WEL short-term (15 min reference period)	1468	mg/m <sup>3</sup> 400 ppm
	WEL long-term (8-hr TWA reference period)	734	mg/m <sup>3</sup> 200 ppm
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Ethyl acetate		
	WEL short-term (15 min reference period)		400 ppm
	WEL long-term (8-hr TWA reference period)		200 ppm
2	<b>acetone</b>	<b>67-64-1</b>	<b>200-662-2</b>
	<b>2000/39/EC</b>		
	Acetone		
	WEL long-term (8-hr TWA reference period)	1210	mg/m <sup>3</sup> 500 ppm
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Acetone		
	WEL short-term (15 min reference period)	3620	mg/m <sup>3</sup> 1500 ppm
	WEL long-term (8-hr TWA reference period)	1210	mg/m <sup>3</sup> 500 ppm
3	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
	<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

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	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
<b>4</b>	<b>ethanol</b>	<b>64-17-5</b>		<b>200-578-6</b>	
	<b>List of approved workplace exposure limits (WELs) / EH40</b>				
	Ethanol				
	WEL long-term (8-hr TWA reference period)	1920	mg/m <sup>3</sup>	1000	ppm
<b>5</b>	<b>propan-2-ol</b>	<b>67-63-0</b>		<b>200-661-7</b>	
	<b>List of approved workplace exposure limits (WELs) / EH40</b>				
	Propan-2-ol				
	WEL short-term (15 min reference period)	1250	mg/m <sup>3</sup>	500	ppm
	WEL long-term (8-hr TWA reference period)	999	mg/m <sup>3</sup>	400	ppm
<b>6</b>	<b>toluene</b>	<b>108-88-3</b>		<b>203-625-9</b>	
	<b>2006/15/EC</b>				
	Toluene				
	WEL short-term (15 min reference period)	384	mg/m <sup>3</sup>	100	ppm
	WEL long-term (8-hr TWA reference period)	192	mg/m <sup>3</sup>	50	ppm
	Skin resorption / sensibilisation	Skin			
	<b>List of approved workplace exposure limits (WELs) / EH40</b>				
	Toluene				
	WEL short-term (15 min reference period)	384	mg/m <sup>3</sup>	100	ppm
	WEL long-term (8-hr TWA reference period)	191	mg/m <sup>3</sup>	50	ppm
	Comments	Sk			
<b>7</b>	<b>butan-1-ol</b>	<b>71-36-3</b>		<b>200-751-6</b>	
	<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			

## DNEL, DMEL and PNEC values

### DNEL values (worker)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	<b>ethyl-acetate</b>			<b>141-78-6</b> <b>205-500-4</b>
	dermal	Long term (chronic)	systemic	63 mg/kg/day
	inhalative	Short term (acut)	systemic	1468 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	734 mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	1468 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	734 mg/m <sup>3</sup>
2	<b>acetone</b>			<b>67-64-1</b> <b>200-662-2</b>
	dermal	Long term (chronic)	systemic	186 mg/kg/day
	inhalative	Short term (acut)	local	2420 mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	1210 mg/m <sup>3</sup>
3	<b>n-butyl acetate</b>			<b>123-86-4</b> <b>204-658-1</b>
	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>
4	<b>Reaction mass of xylene and ethylbenzene</b>			- <b>905-588-0</b>
	dermal	Long term (chronic)	systemic	212 mg/kg/day
	inhalative	Short term (acut)	systemic	442 mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	442 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	221 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	221 mg/m <sup>3</sup>
5	<b>ethanol</b>			<b>64-17-5</b> <b>200-578-6</b>
	dermal	Long term (chronic)	systemic	343 mg/kg/day
	inhalative	Long term (chronic)	systemic	950 mg/m <sup>3</sup>
6	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>			<b>64742-49-0</b> <b>931-254-9</b>

# EU safety data sheet



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Product no.: 0100242

Current version : 4.0.0, issued: 21.04.2021

Replaced version: 3.1.0, issued: 07.08.2020

Region: GB

	dermal	Long term (chronic)	systemic	13964	mg/kg/day
	inhalative	Long term (chronic)	systemic	5306	mg/m <sup>3</sup>
7	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>			-	
				<b>927-510-4</b>	
	dermal	Long term (chronic)	systemic	300	mg/kg/day
	inhalative	Long term (chronic)	systemic	2085	mg/m <sup>3</sup>
8	<b>propan-2-ol</b>			67-63-0	
				<b>200-661-7</b>	
	dermal	Long term (chronic)	systemic	888	mg/kg/day
	inhalative	Long term (chronic)	systemic	500	mg/m <sup>3</sup>
9	<b>toluene</b>			108-88-3	
				<b>203-625-9</b>	
	dermal	Long term (chronic)	systemic	384.00	mg/kg/day
	inhalative	Long term (chronic)	systemic	192.00	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	384.00	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	192.00	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	384.00	mg/m <sup>3</sup>
10	<b>butan-1-ol</b>			71-36-3	
				<b>200-751-6</b>	
	inhalative	Long term (chronic)	local	310	mg/m <sup>3</sup>

## DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>ethyl-acetate</b>			141-78-6	
				<b>205-500-4</b>	
	oral	Long term (chronic)	systemic	4.5	mg/kg/day
	dermal	Long term (chronic)	systemic	37	mg/kg/day
	inhalative	Short term (acut)	systemic	734	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	367	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	734	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	367	mg/m <sup>3</sup>
2	<b>acetone</b>			67-64-1	
				<b>200-662-2</b>	
	oral	Long term (chronic)	systemic	62	mg/kg/day
	dermal	Long term (chronic)	systemic	62	mg/kg/day
	inhalative	Long term (chronic)	systemic	200	mg/m <sup>3</sup>
3	<b>n-butyl acetate</b>			123-86-4	
				<b>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>
4	<b>Reaction mass of xylene and ethylbenzene</b>			-	
				<b>905-588-0</b>	
	oral	Long term (chronic)	systemic	12.5	mg/kg/day
	dermal	Long term (chronic)	systemic	125	mg/kg/day
	inhalative	Short term (acut)	systemic	260	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	65.3	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	260	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	65.3	mg/m <sup>3</sup>
5	<b>ethanol</b>			64-17-5	
				<b>200-578-6</b>	
	oral	Long term (chronic)	systemic	87	mg/kg/day
	dermal	Long term (chronic)	systemic	206	mg/kg/day
	inhalative	Long term (chronic)	systemic	114	mg/m <sup>3</sup>
6	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>			64742-49-0	
				<b>931-254-9</b>	
	oral	Long term (chronic)	systemic	1301	mg/kg/day
	dermal	Long term (chronic)	systemic	1377	mg/kg/day
	inhalative	Long term (chronic)	systemic	1131	mg/m <sup>3</sup>
7	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>			-	
				<b>927-510-4</b>	
	oral	Long term (chronic)	systemic	149	mg/kg/day
	dermal	Long term (chronic)	systemic	149	mg/kg/day

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8	inhalative	Long term (chronic)	systemic	447	mg/m <sup>3</sup>
	<b>propan-2-ol</b>			<b>67-63-0</b>	
				<b>200-661-7</b>	
	oral	Long term (chronic)	systemic	26	mg/kg/day
	dermal	Long term (chronic)	systemic	319	mg/kg/day
9	inhalative	Long term (chronic)	systemic	89	mg/m <sup>3</sup>
	<b>toluene</b>			<b>108-88-3</b>	
				<b>203-625-9</b>	
	oral	Long term (chronic)	systemic	8.13	mg/kg/day
	dermal	Long term (chronic)	systemic	226.00	mg/kg/day
	inhalative	Long term (chronic)	systemic	56.50	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	226.00	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	56.50	mg/m <sup>3</sup>
10	inhalative	Short term (acut)	local	226.00	mg/m <sup>3</sup>
	<b>butan-1-ol</b>			<b>71-36-3</b>	
				<b>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>

## PNEC values

No	Substance name	ecological compartment	Type	CAS / EC no	
				Value	
1	<b>ethyl-acetate</b>			<b>141-78-6</b>	
				<b>205-500-4</b>	
	water		fresh water	0.24	mg/L
	water		marine water	0.024	mg/L
	water		Aqua intermittent	1.65	mg/L
	water		fresh water sediment	1.15	mg/kg dry weight
	water		marine water sediment	0.115	mg/kg dry weight
	soil		-	0.148	mg/kg dry weight
	sewage treatment plant		-	650	mg/L
	secondary poisoning		-	200	mg/kg
2	<b>acetone</b>			<b>67-64-1</b>	
				<b>200-662-2</b>	
	water		fresh water	10.6	mg/L
	water		Aqua intermittent	21	mg/L
	water		marine water	1.06	mg/L
	water		fresh water sediment	30.4	mg/kg
	water		marine water sediment	3.04	mg/kg
	soil		-	29.5	mg/kg
sewage treatment plant		-	100	mg/L	
3	<b>n-butyl acetate</b>			<b>123-86-4</b>	
				<b>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	
4	<b>Reaction mass of xylene and ethylbenzene</b>			-	
				<b>905-588-0</b>	
	water		fresh water	0.327	mg/L
	water		marine water	0.327	mg/L
	water		Aqua intermittent	0.327	mg/L
	water		fresh water sediment	12.46	mg/kg
	water		marine water sediment	12.46	mg/kg
	soil		-	2.31	mg/kg dry weight
	sewage treatment plant		-	6.58	mg/L
	5	<b>ethanol</b>			<b>64-17-5</b>
			<b>200-578-6</b>		
water			fresh water	0.96	mg/L
water			Aqua intermittent	2.75	mg/L
water			marine water	0.79	mg/L
water			fresh water sediment	3.6	mg/kg dry weight
water			marine water sediment	2.9	mg/L
soil		-	0.63	mg/kg dry weight	

Trade name: einzA Nitroverdünnung

Product no.: 0100242

Current version : 4.0.0, issued: 21.04.2021

Replaced version: 3.1.0, issued: 07.08.2020

Region: GB

	sewage treatment plant	-	580	mg/L
	secondary poisoning	-	0.38	mg/kg food
6	<b>propan-2-ol</b>		<b>67-63-0</b> <b>200-661-7</b>	
	water	fresh water	140.9	mg/L
	water	Aqua intermittent	140.9	mg/L
	water	marine water	140.9	mg/L
	water	fresh water sediment	552	mg/L
	water	marine water sediment	552	mg/L
	soil	-	28	mg/kg
	sewage treatment plant	-	2251	mg/L
	secondary poisoning	-	160	mg/kg
	with reference to: food			
7	<b>toluene</b>		<b>108-88-3</b> <b>203-625-9</b>	
	water	fresh water	0.68	mg/L
	water	marine water	0.68	mg/L
	water	Aqua intermittent	0.68	mg/L
	water	fresh water sediment	16.39	mg/kg
	with reference to: dry weight			
	water	marine water sediment	16.39	mg/kg
	with reference to: dry weight			
	soil	-	2.89	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	13.61	mg/L
8	<b>butan-1-ol</b>		<b>71-36-3</b> <b>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

## 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



Trade name: einzA Nitroverdünnung

Product no.: 0100242

Current version : 4.0.0, issued: 21.04.2021

Replaced version: 3.1.0, issued: 07.08.2020

Region: GB

9.1 Information on basic physical and chemical properties

<b>State of aggregation</b>			
liquid			
<b>Form/Colour</b>			
liquid			
colourless			
<b>Odour</b>			
characteristic			
<b>pH value</b>			
No data available			
<b>Boiling point / boiling range</b>			
Value	56	- 145	°C
<b>Melting point/freezing point</b>			
No data available			
<b>Decomposition temperature</b>			
No data available			
<b>Flash point</b>			
Value	appr.	-15	°C
<b>Ignition temperature</b>			
No data available			
<b>Auto-ignition temperature</b>			
Value		240	°C
<b>Oxidising properties</b>			
Not applicable			
<b>Flammability</b>			
Not applicable			
<b>Lower explosion limit</b>			
Value		0.7	% vol
<b>Upper explosion limit</b>			
Value		19.2	% vol
<b>Vapour pressure</b>			
No data available			
<b>Relative vapour density</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	appr.	0.828	g/cm <sup>3</sup>
Reference temperature		20	°C
<b>Solubility in water</b>			
Comments	partially miscible		
<b>Solubility</b>			
No data available			
<b>Partition coefficient n-octanol/water (log value)</b>			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
log Pow			6.8
Reference temperature			25 °C
Source		ECHA	
2	acetone	67-64-1	200-662-2
log Pow			-0.23
Method		QSAR	
Source		ECHA	
3	n-butyl acetate	123-86-4	204-658-1
log Pow			2.3
Reference temperature			25 °C
Method		OECD 117	
Source		ECHA	

Trade name: einZA Nitroverdünnung

Product no.: 0100242

Current version : 4.0.0, issued: 21.04.2021

Replaced version: 3.1.0, issued: 07.08.2020

Region: GB

<b>4</b>	<b>Reaction mass of xylene and ethylbenzene</b>	-	<b>905-588-0</b>
log Pow		3.16	
Reference temperature		20	°C
Source	ECHA		
<b>5</b>	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
log Pow		-0.35	
Reference temperature		24	°C
with reference to	pH 7,4		
Method	OECD 107		
Source	ECHA		
<b>6</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
log Pow		0.05	
Reference temperature		25	°C
Source	ECHA		
<b>7</b>	<b>toluene</b>	<b>108-88-3</b>	<b>203-625-9</b>
log Pow		2.73	
Reference temperature		20	°C
Source	ECHA		

<b>Viscosity</b>			
Value	<	20.5	mm <sup>2</sup> /s
Reference temperature		40	°C
Type	kinematic		

<b>Solvent separation test</b>			
Value	<	3	%
Reference temperature		20	°C

<b>Particle characteristics</b>			
No data available			

## 9.2 Other information

<b>Other information</b>			
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

<b>Acute oral toxicity (result of the ATE calculation for the mixture)</b>			
<b>No</b>	<b>Product Name</b>		
1	einZA Nitroverdünnung		
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).		
<b>Acute oral toxicity</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
1	ethyl-acetate	141-78-6	205-500-4
LD50	>	5600	mg/kg bodyweight
Species	rat		
Source	ECHA		
<b>2</b>	<b>acetone</b>	<b>67-64-1</b>	<b>200-662-2</b>

# EU safety data sheet



Trade name: einzA Nitroverdünnung

Product no.: 0100242

Current version : 4.0.0, issued: 21.04.2021

Replaced version: 3.1.0, issued: 07.08.2020

Region: GB

LD50		5800	mg/kg bodyweight
Species	rat		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
LD50		10760	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		
<b>4</b>	<b>Reaction mass of xylene and ethylbenzene</b>	<b>-</b>	<b>905-588-0</b>
LD50		3523	mg/kg bodyweight
Species	rat		
Method	EU Method B.1		
Source	ECHA		
<b>5</b>	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
LD50		10470	mg/kg bodyweight
Species	rat		
with reference to	95% ethanol in water		
Method	OECD 401		
Source	ECHA		
<b>6</b>	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>931-254-9</b>
LD50		16750	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>7</b>	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>	<b>-</b>	<b>927-510-4</b>
LD50	>	5840	mg/kg bodyweight
Species	rat		
Source	ECHA		
<b>8</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
LD50		5840	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>9</b>	<b>toluene</b>	<b>108-88-3</b>	<b>203-625-9</b>
LD50		5580	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		

## Acute dermal toxicity (result of the ATE calculation for the mixture)

No	Product Name	CAS no.	EC no.
<b>1</b>	<b>einzA Nitroverdünnung</b>		
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 dermal > 2000 mg/kg).		

## Acute dermal toxicity

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>ethyl-acetate</b>	<b>141-78-6</b>	<b>205-500-4</b>
LD50	>	20000	mg/kg bodyweight
Species	rabbit		
Source	ECHA		
<b>2</b>	<b>acetone</b>	<b>67-64-1</b>	<b>200-662-2</b>
LD50	>	15800	mg/kg bodyweight
Species	rabbit		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
LD50	>	14112	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
<b>4</b>	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>931-254-9</b>
LD50	>	3350	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

# EU safety data sheet



Trade name: einzA Nitroverdünnung

Product no.: 0100242

Current version : 4.0.0, issued: 21.04.2021

Replaced version: 3.1.0, issued: 07.08.2020

Region: GB

Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>5</b>	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>	-	<b>927-510-4</b>
LD50	>	2800	3100 mg/kg bodyweight
Species	rat		
Source	ECHA		
<b>6</b>	<b>toluene</b>	<b>108-88-3</b>	<b>203-625-9</b>
LD50	>		5000 mg/kg bodyweight
Species	rabbit		
Source	ECHA		
<b>7</b>	<b>butan-1-ol</b>	<b>71-36-3</b>	<b>200-751-6</b>
LD50	appr.		3430 mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

### Acute inhalational toxicity (result of the ATE calculation for the mixture)

No	Product Name
<b>1</b>	<b>einzA Nitroverdünnung</b>
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 for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).

### Acute inhalational toxicity

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>acetone</b>	<b>67-64-1</b>	<b>200-662-2</b>
LC50		76	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>2</b>	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
LC50		124.7	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
<b>3</b>	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>931-254-9</b>
LC50		259.3	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.		
<b>4</b>	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>	-	<b>927-510-4</b>
LC50	>	23.3	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
<b>5</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
LC50	>	10000	ppmV
Duration of exposure		6	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>6</b>	<b>toluene</b>	<b>108-88-3</b>	<b>203-625-9</b>
LC50	>	20	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
<b>7</b>	<b>butan-1-ol</b>	<b>71-36-3</b>	<b>200-751-6</b>

**Trade name:** einzA Nitroverdünnung

**Product no.:** 0100242

**Current version :** 4.0.0, issued: 21.04.2021

**Replaced version:** 3.1.0, issued: 07.08.2020

**Region:** GB

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	ethyl-acetate	141-78-6	205-500-4
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	low-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	acetone	67-64-1	200-662-2
Species	guinea pig		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	n-butyl acetate	123-86-4	204-658-1
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
4	ethanol	64-17-5	200-578-6
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
5	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	-	927-510-4
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		
6	propan-2-ol	67-63-0	200-661-7
Species	rabbit		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
7	toluene	108-88-3	203-625-9
Duration of exposure		4	h
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		
8	butan-1-ol	71-36-3	200-751-6
Species	rabbit		
Source	ECHA		
Evaluation	irritant		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	low-irritant		
2	acetone	67-64-1	200-662-2
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		
3	n-butyl acetate	123-86-4	204-658-1
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
4	ethanol	64-17-5	200-578-6
Species	rabbit		

**Trade name:** einzA Nitroverdünnung

**Product no.:** 0100242

**Current version :** 4.0.0, issued: 21.04.2021

**Replaced version:** 3.1.0, issued: 07.08.2020

**Region:** GB

Method	OECD 405
Source	ECHA
Evaluation	irritant
<b>5</b>	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b> <b>64742-49-0</b> <b>931-254-9</b>
Duration of exposure	72 h
Species	rabbit
Method	OECD 405
Source	ECHA
Evaluation	non-irritant
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>6</b>	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b> <b>-</b> <b>927-510-4</b>
Species	rabbit
Source	ECHA
Evaluation	non-irritant
<b>7</b>	<b>propan-2-ol</b> <b>67-63-0</b> <b>200-661-7</b>
Species	rabbit
Method	OECD 405
Source	ECHA
Evaluation	irritant
Evaluation/classification	Based on available data, the classification criteria are met.
<b>8</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

### Respiratory or skin sensitisation

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>ethyl-acetate</b>	<b>141-78-6</b>	<b>205-500-4</b>
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
<b>2</b>	<b>acetone</b>	<b>67-64-1</b>	<b>200-662-2</b>
Route of exposure	Skin		
Species	guinea pig		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
Route of exposure	Skin		
Species	mouse		
Source	ECHA		
Evaluation	non-sensitizing		
<b>4</b>	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>931-254-9</b>
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>5</b>	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>	<b>-</b>	<b>927-510-4</b>
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
<b>6</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		

### Germ cell mutagenicity

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>acetone</b>	<b>67-64-1</b>	<b>200-662-2</b>
Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typhimurium		

# EU safety data sheet



Trade name: einzA Nitroverdünnung

Product no.: 0100242

Current version : 4.0.0, issued: 21.04.2021

Replaced version: 3.1.0, issued: 07.08.2020

Region: GB

Method	OECD 471
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Type of examination	In vitro Mammalian Chromosomal Aberration Test
Species	Chinese hamster Ovary (CHO)
Method	OECD 473
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Type of examination	in vitro gene mutation study in mammalian cells
Species	Mouse lymphoma cells
Method	OECD 476
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>Reaction mass of xylene and ethylbenzene</b> <b>-</b> <b>905-588-0</b>
Species	Chinese hamster Ovary (CHO)
Method	EU Method B.10
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>4</b>	<b>ethanol</b> <b>64-17-5</b> <b>200-578-6</b>
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>5</b>	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b> <b>64742-49-0</b> <b>931-254-9</b>
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>6</b>	<b>propan-2-ol</b> <b>67-63-0</b> <b>200-661-7</b>
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>7</b>	<b>toluene</b> <b>108-88-3</b> <b>203-625-9</b>
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>8</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>Reproduction toxicity</b>	
<b>No</b>	<b>Substance name</b> <b>CAS no.</b> <b>EC no.</b>
<b>1</b>	<b>acetone</b> <b>67-64-1</b> <b>200-662-2</b>
Route of exposure	inhalational
NOAEC	2200 ppm
Type of examination	Prenatal Developmental Toxicity Study
Species	rat
Method	OECD 414
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>ethanol</b> <b>64-17-5</b> <b>200-578-6</b>
Route of exposure	oral
NOAEL	
Type of examination	2 generation study
Species	mouse
Method	OECD 416
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Route of exposure	inhalational
NOAEL	
Type of examination	Prenatal Developmental Toxicity Study
Species	rat
Method	OECD 414
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>4</b>	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b> <b>64742-49-0</b> <b>931-254-9</b>
Route of exposure	inhalational
NOAEC	9000 ppm
Duration of exposure	13 week/s
Type of examination	2 generation study
Species	rat

# EU safety data sheet



Trade name: einzA Nitroverdünnung

Product no.: 0100242

Current version : 4.0.0, issued: 21.04.2021

Replaced version: 3.1.0, issued: 07.08.2020

Region: GB

Method	OECD 416
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>5</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	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
Route of exposure		dermal	
Type of examination		Toxicity study	
Species		mouse	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>2</b>	<b>Reaction mass of xylene and ethylbenzene</b>	<b>-</b>	<b>905-588-0</b>
Species		rats (male/female)	
Method		EU Method B.32	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>3</b>	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>4</b>	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>931-254-9</b>
Route of exposure		inhalational	
NOAEC		9018	ppm
Duration of exposure		2	year(s)
Species		mouse	
Method		OECD 451	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT - single exposure			
No data available			

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
Route of exposure		oral	
NOAEL		10000	ppm
Species		rat	
Method		OECD 408	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		inhalational	
NOAEC		19000	ppm
Species		rat	
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>
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.	
<b>3</b>	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
Route of exposure		oral	
Duration of exposure		14	week/s
Species		rat	
Target organ		kidneys	
Method		OECD 408	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>4</b>	<b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>931-254-9</b>
Route of exposure		inhalational	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>5</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
Route of exposure		inhalational	
Source		ECHA	



Trade name: einzA Nitroverdünnung

Product no.: 0100242

Current version : 4.0.0, issued: 21.04.2021

Replaced version: 3.1.0, issued: 07.08.2020

Region: GB

Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>6</b>	<b>toluene</b>	<b>108-88-3</b> <b>203-625-9</b>
Route of exposure	inhalational	
Target organ	central nervous system	
Evaluation/classification	Based on available data, the classification criteria are met.	

**Aspiration hazard**

No data available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

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.

**11.2 Information on other hazards****Endocrine disrupting properties**

No data available.

**Other information**

No data available.

**SECTION 12: Ecological information****12.1 Toxicity**

<b>Toxicity to fish (acute)</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>ethyl-acetate</b>	<b>141-78-6</b>	<b>205-500-4</b>
LC50		230	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Source	ECHA		
<b>2</b>	<b>acetone</b>	<b>67-64-1</b>	<b>200-662-2</b>
LC50		5540	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
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.		
<b>4</b>	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
LC50		14200	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	EPA		
Source	ECHA		
<b>5</b>	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>	<b>-</b>	<b>927-510-4</b>
LL50		>	13.4
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
<b>6</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
LC50		9640	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
<b>7</b>	<b>toluene</b>	<b>108-88-3</b>	<b>203-625-9</b>
LC50		5.5	mg/l
Duration of exposure		96	h
Species	Oncorhynchus kisutch		

# EU safety data sheet



Trade name: einzA Nitroverdünnung

Product no.: 0100242

Current version : 4.0.0, issued: 21.04.2021

Replaced version: 3.1.0, issued: 07.08.2020

Region: GB

Source		ECHA	
<b>8</b>	<b>butan-1-ol</b>	<b>71-36-3</b>	<b>200-751-6</b>
LC50		1376	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
<b>Toxicity to fish (chronic)</b>			
No data available			
<b>Toxicity to Daphnia (acute)</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>ethyl-acetate</b>	<b>141-78-6</b>	<b>205-500-4</b>
EC50		1350	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	ECHA		
<b>2</b>	<b>acetone</b>	<b>67-64-1</b>	<b>200-662-2</b>
EC50		8800	mg/l
Duration of exposure		48	h
Species	Daphnia pulex		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</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>4</b>	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
EC50		5012	mg/l
Duration of exposure		48	h
Species	Ceriodaphnia dubia		
Method	ASTM Standard E 729-80		
Source	ECHA		
<b>5</b>	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>	<b>-</b>	<b>927-510-4</b>
EC50		3	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>6</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
EC50	>	10000	mg/l
Duration of exposure		24	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>7</b>	<b>toluene</b>	<b>108-88-3</b>	<b>203-625-9</b>
EC50		3.78	mg/l
Duration of exposure		48	h
Species	Ceriodaphnia dubia		
Source	ECHA		
<b>8</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>Toxicity to Daphnia (chronic)</b>			
No	Substance name	CAS no.	EC no.
<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>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
NOEC		9.6	mg/l

Trade name: einzA Nitroverdünnung

Product no.: 0100242

Current version : 4.0.0, issued: 21.04.2021

Replaced version: 3.1.0, issued: 07.08.2020

Region: GB

Duration of exposure		9	day(s)
Species	Daphnia magna		
Source	ECHA		
<b>3</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		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
EC50		275	mg/l
Duration of exposure		72	h
Species	Chlorella vulgaris		
Method	OECD 201		
Source	ECHA		
<b>2</b>	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>	<b>-</b>	<b>927-510-4</b>
EL50	10	- 30	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
<b>3</b>	<b>butan-1-ol</b>	<b>71-36-3</b>	<b>200-751-6</b>
EC50		225	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
IC50		356	mg/l
Duration of exposure		40	h
Species	Tetrahymena pyriformis (Protozoa)		
Source	ECHA		
<b>2</b>	<b>butan-1-ol</b>	<b>71-36-3</b>	<b>200-751-6</b>
EC50		4390	mg/l
Duration of exposure		17	h
Species	Pseudomonas putida		
Method	DIN 38412		
Source	ECHA		

## 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>ethyl-acetate</b>	<b>141-78-6</b>	<b>205-500-4</b>
Source	ECHA		
Evaluation	readily biodegradable		
<b>2</b>	<b>acetone</b>	<b>67-64-1</b>	<b>200-662-2</b>
Type	aerobic biodegradation		
Value		90.9	%
Duration		28	day(s)
Method	OECD 301 B		
Source	ECHA		
Evaluation	readily biodegradable		
<b>3</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
Type	aerobic biodegradation		
Value		83	%
Duration		28	day(s)
Method	OECD 301 D		
Source	ECHA		
Evaluation	readily biodegradable		
<b>4</b>	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
Type	aerobic biodegradation		
Value		appr. 84	%
Duration		20	day(s)

Trade name: einzA Nitroverdünnung

Product no.: 0100242

Current version : 4.0.0, issued: 21.04.2021

Replaced version: 3.1.0, issued: 07.08.2020

Region: GB

Method	OECD		
Source	ECHA		
Evaluation	readily biodegradable		
Value			%
<b>5</b>	<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>	<b>-</b>	<b>927-510-4</b>
Type	aerobic biodegradation		
Value		83	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
<b>6</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
Type	BOD/COD		
Value		53	%
Duration		5	day(s)
Source	ECHA		
Evaluation	readily biodegradable		
<b>7</b>	<b>toluene</b>	<b>108-88-3</b>	<b>203-625-9</b>
Type	aerobic biodegradation		
Method	OECD 301 C		
Source	ECHA		
Evaluation	readily biodegradable		
<b>8</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>Abiotic Degradation</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>
Type	Photolysis		
Half-life		3.3	day(s)
Reference temperature		25	°C
Source	ECHA		

12.3 Bioaccumulative potential

<b>Bioconcentration factor (BCF)</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>
BCF		15.3	
Method	Calculation model used (Q)SAR		
Source	ECHA		
<b>Partition coefficient n-octanol/water (log value)</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>ethyl-acetate</b>	<b>141-78-6</b>	<b>205-500-4</b>
log Pow		6.8	
Reference temperature		25	°C
Source	ECHA		
<b>2</b>	<b>acetone</b>	<b>67-64-1</b>	<b>200-662-2</b>
log Pow		-0.23	
Method	QSAR		
Source	ECHA		
<b>3</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
log Pow		2.3	
Reference temperature		25	°C
Method	OECD 117		
Source	ECHA		
<b>4</b>	<b>Reaction mass of xylene and ethylbenzene</b>	<b>-</b>	<b>905-588-0</b>
log Pow		3.16	
Reference temperature		20	°C
Source	ECHA		
<b>5</b>	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
log Pow		-0.35	
Reference temperature		24	°C
with reference to	pH 7,4		
Method	OECD 107		
Source	ECHA		

Trade name: einzA Nitroverdünnung

Product no.: 0100242

Current version : 4.0.0, issued: 21.04.2021

Replaced version: 3.1.0, issued: 07.08.2020

Region: GB

6	propan-2-ol	67-63-0	200-661-7
log Pow		0.05	
Reference temperature		25	°C
Source	ECHA		
7	toluene	108-88-3	203-625-9
log Pow		2.73	
Reference temperature		20	°C
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**

Other information
Do not allow to enter drains or water courses.

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

Waste code 07 01 04\* other organic solvents, washing liquids and mother liquors

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	II
Hazard identification no.	33
UN number	UN1263
Proper shipping name	PAINT RELATED MATERIAL
Special Provision 640	640D
Tunnel restriction code	D/E
Label	3

**14.2 Transport IMDG**

Class	3
Packing group	II
UN number	UN1263
Proper shipping name	PAINT RELATED MATERIAL
EmS	F-E, S-E
Label	3

**14.3 Transport ICAO-TI / IATA**

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

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Trade name: einzA Nitroverdünnung

Product no.: 0100242

Current version : 4.0.0, issued: 21.04.2021

Replaced version: 3.1.0, issued: 07.08.2020

Region: GB

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****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 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	toluene	108-88-3	203-625-9	48

**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: P5b

**Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)**

VOC content 100 %

**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.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure
H373i	May cause damage to organs through prolonged or repeated exposure if inhaled.
H411	Toxic to aquatic life with long lasting effects.

**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.

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**Trade name:** einza Nitroverdünnung

**Product no.:** 0100242

**Current version :** 4.0.0, issued: 21.04.2021

**Replaced version:** 3.1.0, issued: 07.08.2020

**Region:** GB

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Alterations/supplements:

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

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