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
Coatings and paint, filling agent, levelling compounds, thinners
Solvent

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
Reaction mass of xylene and ethylbenzene

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.
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.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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	**ethyl-acetate**			
	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	**acetone**			
	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	**n-butyl acetate**			
	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	**ethanol**			
	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%
5	**Reaction mass of xylene and ethylbenzene**			
	- 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%
6	**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**			
	- 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%
7	**propan-2-ol**			
	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%
8	**butan-1-ol**			

	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	< 5.00	wt%
9	**Hydrocarbons, C6, isoalkanes, <5% n-hexane**		**pls. refer to footnote (2)**	
	64742-49-0 931-254-9 649-328-00-1 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%
10	**toluene**			
	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	< 5.00	wt%

Full text of H- and EUH-phrases, if not already mentioned in section 2.2: 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)
4	-	Eye Irrit. 2; H319: C >= 50%	-	-
9	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, CO2, 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 (CO2); 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

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]/[flatting] 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	**ethyl-acetate**	**141-78-6**		**205-500-4**	
	2017/164/EU				
	Ethyl acetate				
	WEL short-term (15 min reference period)	1468	mg/m³	400	ppm
	WEL long-term (8-hr TWA reference period)	734	mg/m³	200	ppm
	List of approved workplace exposure limits (WELs) / EH40				
	Ethyl acetate				
	WEL short-term (15 min reference period)			400	ppm

	WEL long-term (8-hr TWA reference period)			200	ppm
2	**acetone**	**67-64-1**		**200-662-2**	
	2000/39/EC				
	Acetone				
	WEL long-term (8-hr TWA reference period)	1210	mg/m³	500	ppm
	List of approved workplace exposure limits (WELs) / EH40				
	Acetone				
	WEL short-term (15 min reference period)	3620	mg/m³	1500	ppm
	WEL long-term (8-hr TWA reference period)	1210	mg/m³	500	ppm
3	**n-butyl acetate**	**123-86-4**		**204-658-1**	
	List of approved workplace exposure limits (WELs) / EH40				
	Butyl acetate				
	WEL short-term (15 min reference period)	966	mg/m³	200	ppm
	WEL long-term (8-hr TWA reference period)	724	mg/m³	150	ppm
	EU 2019/1831				
	n-Butyl acetate				
	WEL short-term (15 min reference period)	723	mg/m³	150	ppm
	WEL long-term (8-hr TWA reference period)	241	mg/m³	50	ppm
4	**ethanol**	**64-17-5**		**200-578-6**	
	List of approved workplace exposure limits (WELs) / EH40				
	Ethanol				
	WEL long-term (8-hr TWA reference period)	1920	mg/m³	1000	ppm
5	**propan-2-ol**	**67-63-0**		**200-661-7**	
	List of approved workplace exposure limits (WELs) / EH40				
	Propan-2-ol				
	WEL short-term (15 min reference period)	1250	mg/m³	500	ppm
	WEL long-term (8-hr TWA reference period)	999	mg/m³	400	ppm
6	**butan-1-ol**	**71-36-3**		**200-751-6**	
	List of approved workplace exposure limits (WELs) / EH40				
	Butan-1-ol				
	WEL short-term (15 min reference period)	154	mg/m³	50	ppm
	Comments	Sk			
7	**toluene**	**108-88-3**		**203-625-9**	
	2006/15/EC				
	Toluene				
	WEL short-term (15 min reference period)	384	mg/m³	100	ppm
	WEL long-term (8-hr TWA reference period)	192	mg/m³	50	ppm
	Skin resorption / sensibilisation	Skin			
	List of approved workplace exposure limits (WELs) / EH40				
	Toluene				
	WEL short-term (15 min reference period)	384	mg/m³	100	ppm
	WEL long-term (8-hr TWA reference period)	191	mg/m³	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	**ethyl-acetate**			**141-78-6 205-500-4**	
	dermal	Long term (chronic)	systemic	63	mg/kg/day
	inhalative	Long term (chronic)	systemic	734	mg/m³
	inhalative	Short term (acut)	systemic	1468	mg/m³
	inhalative	Long term (chronic)	local	734	mg/m³
	inhalative	Short term (acut)	local	1468	mg/m³
2	**acetone**			**67-64-1 200-662-2**	
	dermal	Long term (chronic)	systemic	186	mg/kg/day
	inhalative	Short term (acut)	local	2420	mg/m³
	inhalative	Short term (acut)	systemic	1210	mg/m³
3	**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/m³
	inhalative	Short term (acut)	systemic	600	mg/m³
	inhalative	Long term (chronic)	local	300	mg/m³

	inhalative	Short term (acut)	local	600	mg/m³
4	**ethanol**			**64-17-5 200-578-6**	
	dermal	Long term (chronic)	systemic	8238	mg/kg/day
	inhalative	Long term (chronic)	systemic	380	mg/m³
5	**Reaction mass of xylene and ethylbenzene**			**- 905-588-0**	
	dermal	Long term (chronic)	systemic	212	mg/kg/day
	inhalative	Short term (acut)	systemic	442	mg/m³
	inhalative	Short term (acut)	local	442	mg/m³
	inhalative	Long term (chronic)	systemic	221	mg/m³
	inhalative	Long term (chronic)	local	221	mg/m³
6	**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**			**- 927-510-4**	
	dermal	Long term (chronic)	systemic	300	mg/kg/day
	inhalative	Long term (chronic)	systemic	2085	mg/m³
7	**propan-2-ol**			**67-63-0 200-661-7**	
	dermal	Long term (chronic)	systemic	888	mg/kg/day
	inhalative	Long term (chronic)	systemic	500	mg/m³
8	**butan-1-ol**			**71-36-3 200-751-6**	
	inhalative	Long term (chronic)	local	310	mg/m³
9	**Hydrocarbons, C6, isoalkanes, <5% n-hexane**			**64742-49-0 931-254-9**	
	dermal	Long term (chronic)	systemic	13964	mg/kg/day
	inhalative	Long term (chronic)	systemic	5306	mg/m³
10	**toluene**			**108-88-3 203-625-9**	
	dermal	Long term (chronic)	systemic	384.00	mg/kg/day
	inhalative	Long term (chronic)	systemic	192.00	mg/m³
	inhalative	Short term (acut)	systemic	384.00	mg/m³
	inhalative	Long term (chronic)	local	192.00	mg/m³
	inhalative	Short term (acut)	local	384.00	mg/m³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	**ethyl-acetate**			**141-78-6 205-500-4**	
	oral	Long term (chronic)	systemic	4.5	mg/kg/day
	dermal	Long term (chronic)	systemic	37	mg/kg/day
	inhalative	Long term (chronic)	systemic	367	mg/m³
	inhalative	Short term (acut)	systemic	734	mg/m³
	inhalative	Long term (chronic)	local	367	mg/m³
	inhalative	Short term (acut)	local	734	mg/m³
2	**acetone**			**67-64-1 200-662-2**	
	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/m³
3	**n-butyl acetate**			**123-86-4 204-658-1**	
	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/m³
	inhalative	Short term (acut)	systemic	300	mg/m³
	inhalative	Long term (chronic)	local	35.7	mg/m³
	inhalative	Short term (acut)	local	300	mg/m³
4	**ethanol**			**64-17-5 200-578-6**	
	inhalative	Long term (chronic)	systemic	114	mg/m³
5	**Reaction mass of xylene and ethylbenzene**			**- 905-588-0**	
	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/m³

	inhalative	Long term (chronic)	systemic	65.3	mg/m³
	inhalative	Short term (acut)	local	260	mg/m³
	inhalative	Long term (chronic)	local	65.3	mg/m³
6	**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**			**- 927-510-4**	
	oral	Long term (chronic)	systemic	149	mg/kg/day
	dermal	Long term (chronic)	systemic	149	mg/kg/day
	inhalative	Long term (chronic)	systemic	447	mg/m³
7	**propan-2-ol**			**67-63-0 200-661-7**	
	oral	Long term (chronic)	systemic	26	mg/kg/day
	dermal	Long term (chronic)	systemic	319	mg/kg/day
	inhalative	Long term (chronic)	systemic	89	mg/m³
8	**butan-1-ol**			**71-36-3 200-751-6**	
	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/m³
	inhalative	Long term (chronic)	local	155	mg/m³
9	**Hydrocarbons, C6, isoalkanes, <5% n-hexane**			**64742-49-0 931-254-9**	
	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/m³
10	**toluene**			**108-88-3 203-625-9**	
	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/m³
	inhalative	Short term (acut)	systemic	226.00	mg/m³
	inhalative	Long term (chronic)	local	56.50	mg/m³
	inhalative	Short term (acut)	local	226.00	mg/m³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	**ethyl-acetate**		**141-78-6 205-500-4**	
	water	fresh water	0.24	mg/L
	water	marine water	0.024	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	-	0.2	g/kg
	with reference to: food			
2	**acetone**		**67-64-1 200-662-2**	
	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	**n-butyl acetate**		**123-86-4 204-658-1**	
	water	fresh water	0.18	mg/L
	water	marine water	0.018	mg/L
	water	fresh water sediment	0.981	mg/kg dry weight
	water	marine water sediment	0.098	mg/kg dry weight
	soil	-	0.09	mg/kg
	sewage treatment plant	-	35.6	mg/L
4	**ethanol**		**64-17-5 200-578-6**	
	water	fresh water	0.96	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
	sewage treatment plant	-	580	mg/L
	secondary poisoning	-	0.38	g/kg
	with reference to: food			
5	**Reaction mass of xylene and ethylbenzene**		**- 905-588-0**	
	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
6	**propan-2-ol**		**67-63-0 200-661-7**	
	soil	-	28	mg/kg
	sewage treatment plant	-	2251	mg/L
	secondary poisoning	-	160	mg/kg
	with reference to: food			
7	**butan-1-ol**		**71-36-3 200-751-6**	
	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	**toluene**		**108-88-3 203-625-9**	
	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

8.2 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 googles 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	Barrier (PE/PA/PE)		
Material thickness		0.07	mm
Breakthrough time	>=	480	min

Other

protective overalls; Antistatic shoes

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

State of aggregation
liquid

Form
liquid

Colour
colourless

Odour
characteristic

pH value		
reason for missing pH	substance/mixture is non-soluble (in water)	

Boiling point / boiling range				
Value	56	-	145	°C

Melting point/freezing point
not determined

Decomposition temperature
No data available

Flash point			
Value	appr.	-15	°C

Ignition temperature
No data available

Auto-ignition temperature			
Value		240	°C

Oxidising properties
Not applicable

Flammability
Not applicable

Lower explosion limit			
Value		0.7	% vol

Upper explosion limit			
Value		19.2	% vol

Vapour pressure			
Value	>	1100	hPa
Reference temperature		50	°C

Relative vapour density
No data available

Relative density
No data available

Density			
Value	appr.	0.847	g/cm³
Reference temperature		20	°C

Solubility in water	
Comments	miscible

Solubility
No data available

Partition coefficient n-octanol/water (log value)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**ethyl-acetate**	**141-78-6**		**205-500-4**
log Pow			0.68	
Reference temperature			25	°C
with reference to	pH 7			
Method	EPA OPPTS 830.7560			
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			
4	**ethanol**	**64-17-5**		**200-578-6**
log Pow			-0.35	
Reference temperature			24	°C
with reference to	pH 7,4			
Method	OECD 107			
Source	ECHA			
5	**Reaction mass of xylene and ethylbenzene**	**-**		**905-588-0**
log Pow	appr.		3.49	
Reference temperature			30	°C
with reference to	pH >= 5 - <= 8			
Method	OECD 117			
Source	ECHA			
6	**propan-2-ol**	**67-63-0**		**200-661-7**
log Pow			0.05	
Reference temperature			25	°C
Source	ECHA			
7	**Hydrocarbons, C6, isoalkanes, <5% n-hexane**	**64742-49-0**		**931-254-9**
log Pow			3.6	
Reference temperature			20	°C
with reference to	pH 7			
Source	ECHA			
8	**toluene**	**108-88-3**		**203-625-9**
log Pow			2.73	
Reference temperature			20	°C
with reference to	pH 7			
Source	ECHA			

Kinematic viscosity			
Value	<	20.5	mm²/s
Reference temperature		40	°C
Type	kinematic		

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

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)	
Product Name	
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).

Acute oral toxicity				
No	**Substance name**	**CAS no.**		**EC no.**
1	**ethyl-acetate**	**141-78-6**		**205-500-4**
LD50		> 5600		mg/kg bodyweight
Species		rat		
Source		ECHA		
2	**acetone**	**67-64-1**		**200-662-2**
LD50		5800		mg/kg bodyweight
Species		rat		
Source		ECHA		
Evaluation/classification		Based on available data, the classification criteria are not met.		
3	**n-butyl acetate**	**123-86-4**		**204-658-1**
LD50		10760		mg/kg bodyweight
Species		rat		
Method		OECD 423		
Source		ECHA		
4	**ethanol**	**64-17-5**		**200-578-6**
LD50		10470		mg/kg bodyweight
Species		rat		
with reference to		95% ethanol in water		
Method		OECD 401		
Source		ECHA		
Evaluation/classification		Based on available data, the classification criteria are not met.		
5	**Reaction mass of xylene and ethylbenzene**	**-**		**905-588-0**
LD50		3523		mg/kg bodyweight
Species		rat		
Method		EU Method B.1		
Source		ECHA		
Evaluation/classification		Based on available data, the classification criteria are not met.		
6	**propan-2-ol**	**67-63-0**		**200-661-7**
LD50		5840		mg/kg bodyweight
Species		rat		
Method		OECD 401		
Source		ECHA		
Evaluation/classification		Based on available data, the classification criteria are not met.		
7	**Hydrocarbons, C6, isoalkanes, <5% n-hexane**	**64742-49-0**		**931-254-9**
LD50		> 16750		mg/kg bodyweight
Species		rat		
Source		ECHA		
8	**toluene**	**108-88-3**		**203-625-9**
LD50		5580		mg/kg bodyweight
Species		rat		
Method		EU Method B.1		
Source		ECHA		
Evaluation/classification		Based on available data, the classification criteria are not met.		

Acute dermal toxicity (result of the ATE calculation for the mixture)	
Product Name	
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 dermal > 2000 mg/kg).

Acute dermal toxicity				
No	**Substance name**	**CAS no.**		**EC no.**
1	**ethyl-acetate**	**141-78-6**		**205-500-4**
LD50		> 20000		mg/kg bodyweight
Species		rabbit		

Source	ECHA			
2	**acetone**	**67-64-1**		**200-662-2**
LD50	>	15800		mg/kg bodyweight
Species	rabbit			
Source	ECHA			
Evaluation/classification	Based on available data, the classification criteria are not met.			
3	**n-butyl acetate**	**123-86-4**		**204-658-1**
LD50	>	14112		mg/kg bodyweight
Species	rabbit			
Method	OECD 402			
Source	ECHA			
4	**butan-1-ol**	**71-36-3**		**200-751-6**
LD50	appr.	3430		mg/kg bodyweight
Species	rabbit			
Method	OECD 402			
Source	ECHA			
5	**Hydrocarbons, C6, isoalkanes, <5% n-hexane**	**64742-49-0**		**931-254-9**
LD50	>	3350		mg/kg bodyweight
Species	rabbit			
Source	ECHA			
6	**toluene**	**108-88-3**		**203-625-9**
LD50	>	5000		mg/kg bodyweight
Species	rabbit			
Source	ECHA			
Evaluation/classification	Based on available data, the classification criteria are not met.			

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
Product Name	
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 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.**
1	**acetone**	**67-64-1**		**200-662-2**
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.			
2	**ethanol**	**64-17-5**		**200-578-6**
LC50		124.7		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.			
3	**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**	**-**		**927-510-4**
LC50	>	23.3		mg/l
Duration of exposure		4		h
State of aggregation	Vapour			
Species	rat			
Method	OECD 403			
Source	ECHA			
4	**propan-2-ol**	**67-63-0**		**200-661-7**
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.			
5	**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		
6	**Hydrocarbons, C6, isoalkanes, <5% n-hexane**	**64742-49-0**	**931-254-9**
LC50		73860	ppmV
Duration of exposure		4	h
State of aggregation	Gas		
Species	rat		
Source	ECHA		
7	**toluene**	**108-88-3**	**203-625-9**
LC50	>	20	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.		

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		
Evaluation/classification	Based on available data, the classification criteria are not met.		
5	**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**	**-**	**927-510-4**
Species	rabbit		
with reference to	CAS 64741-66-8		
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	**butan-1-ol**	**71-36-3**	**200-751-6**
Species	rabbit		
Source	ECHA		
Evaluation	irritant		
8	**toluene**	**108-88-3**	**203-625-9**
Duration of exposure		4	h
Species	rabbit		
Method	EU Method B.4		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		

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		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		
5	**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**	**-**	**927-510-4**
Species	rabbit		
with reference to	CAS 64741-66-8		
Method	EPA OPPTS 870.2400		
Source	ECHA		
Evaluation	non-irritant		
6	**propan-2-ol**	**67-63-0**	**200-661-7**
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		
7	**butan-1-ol**	**71-36-3**	**200-751-6**
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	strongly irritant		
8	**Hydrocarbons, C6, isoalkanes, <5% n-hexane**	**64742-49-0**	**931-254-9**
Species	rabbit		
Method	OECD 405		
Source	ECHA / Read across		
Evaluation	non-irritant		
9	**toluene**	**108-88-3**	**203-625-9**
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Respiratory or skin sensitisation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**ethyl-acetate**	**141-78-6**	**205-500-4**
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
2	**acetone**	**67-64-1**	**200-662-2**
Route of exposure	Skin		
Species	guinea pig		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	**ethanol**	**64-17-5**	**200-578-6**
Route of exposure	respiratory tract		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure	Skin		
Species	mouse		
Source	ECHA		
Evaluation	non-sensitizing		

Evaluation/classification	Based on available data, the classification criteria are not met.		
4	**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**	**-**	**927-510-4**
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
5	**propan-2-ol**	**67-63-0**	**200-661-7**
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.		
6	**butan-1-ol**	**71-36-3**	**200-751-6**
Route of exposure	Skin		
Evaluation/classification	Based on available data, the classification criteria are not met.		
7	**Hydrocarbons, C6, isoalkanes, <5% n-hexane**	**64742-49-0**	**931-254-9**
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 429		
Source	ECHA		
Evaluation	non-sensitizing		
8	**toluene**	**108-88-3**	**203-625-9**
Route of exposure	Skin		
Species	guinea pig		
Method	EU Method B.6		
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.**
1	**ethyl-acetate**	**141-78-6**	**205-500-4**
Type of examination	Bacterial Reverse Mutation Test		
Species	S. typhimurium, other: TA 1535, TA 1537, TA 97, TA98 and TA 100		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	**acetone**	**67-64-1**	**200-662-2**
Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typhimurium		
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.		
3	**n-butyl acetate**	**123-86-4**	**204-658-1**
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	**ethanol**	**64-17-5**	**200-578-6**
Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typhimurium		
Method	OECD 471		
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.		
Type of examination	Genotoxicity in vivo		

Species	mouse
Method	OECD 478
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

5	Reaction mass of xylene and ethylbenzene	-	905-588-0

Species	Chinese hamster Ovary (CHO)
Method	EU Method B.10
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

6	propan-2-ol	67-63-0	200-661-7

Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

7	butan-1-ol	71-36-3	200-751-6

Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

8	toluene	108-88-3	203-625-9

Duration of exposure	4	h

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.

Reproduction toxicity

No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4

Type of examination	Two-Generation Reproduction Toxicity Study
Species	mouse
Method	OECD 416
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

2	acetone	67-64-1	200-662-2

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.

3	n-butyl acetate	123-86-4	204-658-1

Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

4	ethanol	64-17-5	200-578-6

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	>= 20000	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.

5	propan-2-ol	67-63-0	200-661-7

Route of exposure	oral	
NOAEL	1000	mg/kg bw/d

Type of examination	Two-Generation Reproduction Toxicity Study
Species	rats (male/female)
Method	OECD 416
Source	ECHA
Evaluation/classification	Based on the available data, the classification criteria are not met.

6	butan-1-ol	71-36-3	200-751-6

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.		
2	**ethanol**	**64-17-5**	**200-578-6**	
Source		ECHA		
Evaluation/classification		Based on available data, the classification criteria are not met.		
3	**Reaction mass of xylene and ethylbenzene**	**-**	**905-588-0**	
Species		rats (male/female)		
Method		EU Method B.32		
Source		ECHA		
Evaluation/classification		Based on available data, the classification criteria are not met.		
4	**propan-2-ol**	**67-63-0**	**200-661-7**	
Route of exposure		inhalational		
NOEL		5000	ppm	
Species		rats (male/female)		
Method		OECD 451		
Source		ECHA		
5	**toluene**	**108-88-3**	**203-625-9**	
Route of exposure		inhalational		
Duration of exposure		103	week/s	
Species		rat		
Method		OECD 453		
Source		ECHA		
Evaluation/classification		Based on available data, the classification criteria are not met.		

STOT - single exposure				
No	**Substance name**	**CAS no.**	**EC no.**	
1	**ethyl-acetate**	**141-78-6**	**205-500-4**	
Route of exposure		inhalational		
NOEC		350	ppm	
Species		rat		
Source		ECHA		
Effects		May cause drowsiness or dizziness.		
Evaluation/classification		Based on available data, the classification criteria are met.		
2	**toluene**	**108-88-3**	**203-625-9**	
Species		Human		
Evaluation/classification		Based on available data, the classification criteria are met.		

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.		
2	**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.		
3	**ethanol**	**64-17-5**	**200-578-6**	
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.		
4	**propan-2-ol**	**67-63-0**	**200-661-7**
Route of exposure	inhalational		
NOAEC	12500		mg/m³
Species	rat		
Method	OECD 451		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
5	**toluene**	**108-88-3**	**203-625-9**
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

Endocrine disrupting properties
Product Name
einzA Nitroverdünnung
No additional information 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

Other information
No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**ethyl-acetate**	**141-78-6**		**205-500-4**
LC50		220		mg/l
Duration of exposure		96		h
Species	Pimephales promelas			
Source	ECHA			
2	**acetone**	**67-64-1**		**200-662-2**
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.			
3	**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.			
4	**ethanol**	**64-17-5**		**200-578-6**
LC50		14200		mg/l
Duration of exposure		96		h
Species	Pimephales promelas			
Method	EPA			
Source	ECHA			
5	**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**	**-**		**927-510-4**
LL50	>	13.4		mg/l
Duration of exposure		96		h
Species	Oncorhynchus mykiss			
Method	OECD 203			
Source	ECHA			

6	propan-2-ol	67-63-0		200-661-7
LC50			9640	mg/l
Duration of exposure			96	h
Species		Pimephales promelas		
Method		OECD 203		
Source		ECHA		
7	**butan-1-ol**	**71-36-3**		**200-751-6**
LC50			1376	mg/l
Duration of exposure			96	h
Species		Pimephales promelas		
Method		OECD 203		
Source		ECHA		
8	**toluene**	**108-88-3**		**203-625-9**
LC50			5.5	mg/l
Duration of exposure			96	h
Species		Oncorhynchus kisutch		
Source		ECHA		

Toxicity to fish (chronic)
No data available

Toxicity to Daphnia (acute)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**ethyl-acetate**	**141-78-6**		**205-500-4**
EC50			3090	mg/l
Duration of exposure			24	h
Species		Daphnia magna		
Source		ECHA		
2	**acetone**	**67-64-1**		**200-662-2**
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.		
3	**n-butyl acetate**	**123-86-4**		**204-658-1**
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.		
4	**ethanol**	**64-17-5**		**200-578-6**
EC50			5012	mg/l
Duration of exposure			48	h
Species		Ceriodaphnia dubia		
Method		ASTM Standard E 729-80		
Source		ECHA		
5	**butan-1-ol**	**71-36-3**		**200-751-6**
EC50			1328	mg/l
Duration of exposure			48	h
Species		Daphnia magna		
Method		OECD 202		
Source		ECHA		
6	**toluene**	**108-88-3**		**203-625-9**
EC50			3.78	mg/l
Duration of exposure			48	h
Species		Ceriodaphnia dubia		
Method		EPA 600/4-91-003		
Source		ECHA		

Toxicity to Daphnia (chronic)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**ethyl-acetate**	**141-78-6**		**205-500-4**
NOEC			2.4	mg/l
Species		Daphnia magna		
Method		OECD 211		
2	**n-butyl acetate**	**123-86-4**		**204-658-1**
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.

3	ethanol	64-17-5	200-578-6
NOEC		9.6	mg/l
Duration of exposure		9	day(s)
Species	Daphnia magna		
Source	ECHA		

4	butan-1-ol	71-36-3	200-751-6
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.
1	n-butyl acetate	123-86-4	204-658-1
EC50		397	mg/l
Duration of exposure		72	h
Species	Selenastrum capricornutum		
Method	OECD 201		
Source	ECHA		
2	ethanol	64-17-5	200-578-6
EC50		275	mg/l
Duration of exposure		72	h
Species	Chlorella vulgaris		
Method	OECD 201		
Source	ECHA		
3	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		

Toxicity to algae (chronic)

No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
NOEC		> 100	mg/l
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
2	n-butyl acetate	123-86-4	204-658-1
NOEC		196	mg/l
Duration of exposure		72	h
Species	Raphidocelis subcapitata		
Method	OECD 201		
Source	ECHA		
3	butan-1-ol	71-36-3	200-751-6
NOEC		129	mg/l
Species	Raphidocelis subcapitata		
Method	OECD 201		
Source	ECHA		

Bacteria toxicity

No	Substance name	CAS no.	EC no.
1	n-butyl acetate	123-86-4	204-658-1
IC50		356	mg/l
Duration of exposure		40	h
Species	Tetrahymena pyriformis (Protozoa)		
Source	ECHA		
2	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		

12.2 Persistence and degradability

Biodegradability

No	Substance name	CAS no.	EC no.

1	ethyl-acetate	141-78-6		205-500-4
Type		COD		
Value			60	%
Duration			10	day(s)
Source		ECHA		
Evaluation		readily biodegradable		
2	**acetone**	**67-64-1**		**200-662-2**
Type		aerobic biodegradation		
Value			90.9	%
Duration			28	day(s)
Method		OECD 301 B		
Source		ECHA		
Evaluation		readily biodegradable		
3	**n-butyl acetate**	**123-86-4**		**204-658-1**
Type		aerobic biodegradation		
Value			83	%
Duration			28	day(s)
Method		OECD 301 D		
Source		ECHA		
Evaluation		readily biodegradable		
4	**ethanol**	**64-17-5**		**200-578-6**
Type		aerobic biodegradation		
Value		appr.	84	%
Duration			20	day(s)
Source		ECHA		
Evaluation		readily biodegradable		
5	**Reaction mass of xylene and ethylbenzene**	**-**		**905-588-0**
Type		aerobic biodegradation		
Value			98	%
Duration			28	d
Method		OECD 301 F		
Source		ECHA		
Evaluation		readily biodegradable		
6	**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**	**-**		**927-510-4**
Type		aerobic biodegradation		
Value			83	%
Duration			28	day(s)
Method		OECD 301 F		
Source		ECHA		
Evaluation		readily biodegradable		
7	**propan-2-ol**	**67-63-0**		**200-661-7**
Type		BOD/COD		
Value			53	%
Duration			5	day(s)
Source		ECHA		
Evaluation		readily biodegradable		
8	**butan-1-ol**	**71-36-3**		**200-751-6**
Type		DOC decrease		
Value			92	%
Duration			20	day(s)
Method		OECD		
Source		ECHA		
Evaluation		readily biodegradable		
9	**Hydrocarbons, C6, isoalkanes, <5% n-hexane**	**64742-49-0**		**931-254-9**
Type		aerobic biodegradation		
Value			98	%
Duration			28	day(s)
Source		ECHA		
Evaluation/classification		Readily biodegradable		
10	**toluene**	**108-88-3**		**203-625-9**
Type		aerobic biodegradation		
Value			100	%
Duration			14	day(s)
Method		OECD 301 C		
Source		ECHA		
Evaluation		readily biodegradable		

Abiotic Degration			
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	**ethyl-acetate**	**141-78-6**	**205-500-4**
BCF		30	
Source	ECHA		
2	**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	**ethyl-acetate**	**141-78-6**	**205-500-4**
log Pow		0.68	
Reference temperature		25	°C
with reference to	pH 7		
Method	EPA OPPTS 830.7560		
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		
4	**ethanol**	**64-17-5**	**200-578-6**
log Pow		-0.35	
Reference temperature		24	°C
with reference to	pH 7,4		
Method	OECD 107		
Source	ECHA		
5	**Reaction mass of xylene and ethylbenzene**	**-**	**905-588-0**
log Pow	appr.	3.49	
Reference temperature		30	°C
with reference to	pH >= 5 - <= 8		
Method	OECD 117		
Source	ECHA		
6	**propan-2-ol**	**67-63-0**	**200-661-7**
log Pow		0.05	
Reference temperature		25	°C
Source	ECHA		
7	**Hydrocarbons, C6, isoalkanes, <5% n-hexane**	**64742-49-0**	**931-254-9**
log Pow		3.6	
Reference temperature		20	°C
with reference to	pH 7		
Source	ECHA		
8	**toluene**	**108-88-3**	**203-625-9**
log Pow		2.73	
Reference temperature		20	°C
with reference to	pH 7		
Source	ECHA		

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
Product Name	
einzA Nitroverdünnung	
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

Endocrine disrupting properties
Product Name
einzA Nitroverdünnung
No additional information is 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 UN number or ID number

ADR/RID/ADN	UN1263
IMDG	UN1263
ICAO-TI / IATA	UN1263

14.2 UN proper shipping name

ADR/RID/ADN	PAINT RELATED MATERIAL
IMDG	PAINT RELATED MATERIAL
ICAO-TI / IATA	Paint related material

14.3 Transport hazard class(es)

ADR/RID/ADN - Class	3
Label	3
Classification code	F1
Tunnel restriction code	D/E
Hazard identification no.	33
Special Provision 640	640D
IMDG - Class	3
Label	3
ICAO-TI / IATA - Class	3
Label	3

14.4 Packing group

ADR/RID/ADN	II
IMDG	II
ICAO-TI / IATA	II

14.5 Environmental hazards

EmS F-E, S-E

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 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	**acetone**	**67-64-1**	**200-662-2**	**75**
2	**butan-1-ol**	**71-36-3**	**200-751-6**	**75**
3	**butanone**	**78-93-3**	**201-159-0**	**75**
4	**ethyl-acetate**	**141-78-6**	**205-500-4**	**75**
5	**propan-2-ol**	**67-63-0**	**200-661-7**	**75**
6	**toluene**	**108-88-3**	**203-625-9**	**48, 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:	P5b

Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)		
VOC content	99.8	%
VOC-value	827	g/l

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.

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
UMCO GmbH
Georg-Wilhelm-Str. 187, D-21107 Hamburg
Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: umco@umco.de

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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