

Trade name: einZA mix Lawidur sgl 2K-PU-Buntlack, Basis 2 Stammlack

Product no.: 0071312

Current version: 1.0.1, Revision: 08.05.2026

Replaced version: 1.0.0, Revision: 28.01.2026

Region:
GER

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

1.1 Product identifier

Trade name

einZA mix Lawidur sgl 2K-PU-Buntlack, Basis 2 Stammlack

UFI:

MY4A-H1TC-W00S-33DC

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

Relevant identified uses of the substance or mixture

decorative paints/finishes

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

einZA Farben GmbH & 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

Information provided by / telephone

In emergencies, the country-specific emergency number can be found in the corresponding country-specific safety data sheets.

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

+49 (0)40 0511 - 674 90-0

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

Flam. Liq. 3; H226

STOT SE 3; H335

STOT SE 3; H336

Classification information

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

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

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

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



GHS02



GHS07

Signal word

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Warning

Hazardous component(s) to be indicated on label:

Hydrocarbons, C9, aromatics

Hazard statement(s)

H226 Flammable liquid and vapour.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H412 Harmful to aquatic life with long lasting effects.

Hazard statements (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

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.
 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.

UFI:

MY4A-H1TC-W00S-33DC

2.3 Other hazards

The product does not contain any components > 0.1% that meet the criteria for PBT and vPvB according to Regulation (EC) No. 1907/2006, Annex XIII, or that have been included in the list compiled in accordance with Article 59(1). This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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	Hydrocarbons, C9, aromatics		pls. refer to footnote (2)	
	64742-95-6 918-668-5 649-356-00-4 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H335 STOT SE 3; H336 Aquatic Chronic 2; H411 Asp. Tox. 1; H304 EUH066	>= 10,00 - < 25,00	wt%
2	2-butoxyethyl acetate			
	112-07-2 203-933-3 607-038-00-2 01-2119475112-47	Acute Tox. 4; H312 Acute Tox. 4; H332 Acute Tox. 4; H302	>= 10,00 - < 25,00	wt%
3	2-ethoxy-1-methylethyl acetate			
	54839-24-6 259-370-9 603-177-00-8 01-2119475116-39	Flam. Liq. 3; H226 STOT SE 3; H336	>= 5,00 - < 10,00	wt%
4	Reaction mass of xylene and ethylbenzene			

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	- 905-588-0 - 01-2119488216-32	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 RE 2; H373 STOT SE 3; H335	< 5,00	wt%
5	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	< 2,50	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)
1	P	-	-	-
4	-	STOT RE 2; H373: C \geq 10%	-	-

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)".

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
2		1500 mg/kg bodyweight	

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.

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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

If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Do not allow to enter drains/watercourses/soil.

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; Storage in accordance with the Ordinance on Industrial Safety and Health. 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

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

Stoarge Class according TRGS 510

3 Flammable liquids

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	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5		
	TRGS 900				
	Kohlenwasserstoffgemische, Verwendung als Lösemittel (Lösemittelkohlenwasserstoffe), additiv-frei: C9-C15 Aromaten				
	WEL long-term (8-hr TWA reference period)	100	mg/m ³		
	Ceiling Limit	2 (II)			
2	2-butoxyethyl acetate	112-07-2	203-933-3		
	2000/39/EC				
	2-Butoxyethyl acetate				
	WEL short-term (15 min reference period)	333	mg/m ³	50	ppm
	WEL long-term (8-hr TWA reference period)	133	mg/m ³	20	ppm
	Skin resorption / sensibilisation	Skin			
	TRGS 900				
	2-Butoxyethyl-acetat				
	WEL long-term (8-hr TWA reference period)	65	mg/m ³	10	ml/m ³
	Ceiling Limit	2(I)			
	Skin resorption / sensibilisation	H			
	Notes	Y, 11			
3	2-ethoxy-1-methylethyl acetate	54839-24-6	259-370-9		
	TRGS 900				
	2-Ethoxy-1-methylethylacetat				
	WEL long-term (8-hr TWA reference period)	120	mg/m ³	20	ml/m ³
	Ceiling Limit	2(II)			
	Skin resorption / sensibilisation	H			
	Notes	Y, 14			
4	n-butyl acetate	123-86-4	204-658-1		
	TRGS 900				
	n-Butylacetat				
	WEL long-term (8-hr TWA reference period)	300	mg/m ³	62	ml/m ³
	Ceiling Limit	2(I)			
	Notes	Y			
	EU 2019/1831				
	n-Butyl acetate				
	WEL short-term (15 min reference period)	723	mg/m ³	150	ppm
	WEL long-term (8-hr TWA reference period)	241	mg/m ³	50	ppm

Biological limit values

No	Substance name			
1	2-butoxyethyl acetate			
	TRGS 903			
	2-Butoxyethylacetat			
	parameter	2-Butoxyethylacetat (nach Hydrolyse)		
	Value	150	mg/g Kreatinin	
	Comments	5/2024 DFG		
	sample material	U		
	Sampling moment	c		

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DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Hydrocarbons, C9, aromatics			64742-95-6 918-668-5	
	inhalative	Long term (chronic)	systemic	0,64	mg/m ³
	inhalative	Short term (acut)	systemic	1286,4	mg/m ³
	inhalative	Long term (chronic)	local	837,5	mg/m ³
2	2-butoxyethyl acetate			112-07-2 203-933-3	
	dermal	Long term (chronic)	systemic	169	mg/kg/day
	dermal	Short term (acut)	systemic	120	mg/kg/day
	inhalative	Long term (chronic)	systemic	133	mg/m ³
3	2-ethoxy-1-methylethyl acetate			54839-24-6 259-370-9	
	dermal	Long term (chronic)	systemic	103	mg/kg/day
	inhalative	Long term (chronic)	systemic	152	mg/m ³
	inhalative	Short term (acut)	systemic	2366	mg/m ³
4	Reaction mass of xylene and ethylbenzene			- 905-588-0	
	dermal	Long term (chronic)	systemic	212,00	mg/kg/day
	inhalative	Short term (acut)	systemic	442,00	mg/m ³
	inhalative	Short term (acut)	local	442,00	mg/m ³
	inhalative	Long term (chronic)	systemic	221,00	mg/m ³
	inhalative	Long term (chronic)	local	221,00	mg/m ³
5	n-butyl acetate			123-86-4 204-658-1	
	dermal	Long term (chronic)	systemic	11	mg/kg/day
	dermal	Short term (acut)	systemic	11	mg/kg/day
	inhalative	Long term (chronic)	systemic	300	mg/m ³
	inhalative	Short term (acut)	systemic	600	mg/m ³
	inhalative	Long term (chronic)	local	300	mg/m ³
6	n-butyl acetate			123-86-4 204-658-1	
	inhalative	Short term (acut)	local	600	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Hydrocarbons, C9, aromatics			64742-95-6 918-668-5	
	inhalative	Long term (chronic)	systemic	0,113	mg/m ³
	inhalative	Short term (acut)	systemic	1,152	mg/m ³
	inhalative	Long term (chronic)	local	178,57	mg/m ³
2	2-butoxyethyl acetate			112-07-2 203-933-3	
	oral	Long term (chronic)	systemic	8,6	mg/kg/day
	oral	Short term (acut)	systemic	36	mg/kg/day
	dermal	Long term (chronic)	systemic	102	mg/kg/day
	dermal	Short term (acut)	systemic	72	mg/kg/day
	inhalative	Long term (chronic)	systemic	80	mg/m ³
3	2-ethoxy-1-methylethyl acetate			54839-24-6 259-370-9	
	oral	Long term (chronic)	systemic	13,1	mg/kg/day
	dermal	Long term (chronic)	systemic	62	mg/kg/day
	inhalative	Long term (chronic)	systemic	181	mg/m ³

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4	inhalative	Short term (acut)	systemic	1420	mg/m ³
	Reaction mass of xylene and ethylbenzene			-	
				905-588-0	
	oral	Long term (chronic)	systemic	5	mg/kg/day
	dermal	Long term (chronic)	systemic	125,00	mg/kg/day
	inhalative	Short term (acut)	systemic	260,00	mg/m ³
	inhalative	Long term (chronic)	systemic	65,30	mg/m ³
5	inhalative	Short term (acut)	local	260,00	mg/m ³
	inhalative	Long term (chronic)	local	65,30	mg/m 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/m ³
	inhalative	Short term (acut)	systemic	300	mg/m ³
	inhalative	Long term (chronic)	local	35,7	mg/m ³
	inhalative	Short term (acut)	local	300	mg/m ³

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	2-butoxyethyl acetate		112-07-2 203-933-3
	water	fresh water	0,304 mg/L
	water	marine water	0,0304 mg/L
	water	fresh water sediment	2,03 mg/kg
	water	marine water sediment	0,203 mg/kg
	water	Aqua intermittent	0,56 mg/L
	soil	-	0,415 mg/kg
	sewage treatment plant	-	90 mg/L
	secondary poisoning	-	60 mg/kg food
2	2-ethoxy-1-methylethyl acetate		54839-24-6 259-370-9
	water	fresh water	2 mg/L
	water	marine water	0,2 mg/L
	water	Aqua intermittent	2 mg/L
	water	fresh water sediment	8,2 mg/kg dry weight
	water	marine water sediment	0,82 mg/kg dry weight
	soil	-	0,67 mg/kg dry weight
	sewage treatment plant	-	62,5 mg/L
	secondary poisoning	-	117 mg/kg food
3	Reaction mass of xylene and ethylbenzene		-
			905-588-0
	water	fresh water	0,1 mg/L
	water	marine water	0,01 mg/L
	water	fresh water sediment	13,7 mg/kg
	water	marine water sediment	1,37 mg/kg
	soil	-	2,68 mg/kg dry weight
	sewage treatment plant	-	9,6 mg/L
	secondary poisoning	-	0,02 g/kg
4	n-butyl acetate		123-86-4 204-658-1
	water	fresh water	0,18 mg/L
	water	marine water	0,018 mg/L

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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

8.2 Exposure controls

Appropriate engineering controls

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

Personal protective equipment

Respiratory protection

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

Eye / face protection

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

Hand protection

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

Appropriate Material In case of short-term contact / splash protection: nitrile rubber

Material thickness > 0,4 mm

Breakthrough time > 120 min

Appropriate Material In case of prolonged exposure: nitrile rubber

Material thickness > 0,4 mm

Breakthrough time > 480 min

Other

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

Environmental exposure controls

Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation	
liquid	
Form	
liquid	
Colour	
according to product name	
Odour	
like solvents	
pH value	
reason for missing pH	substance/mixture is non-soluble (in water)
Boiling point / boiling range	
Value	> 120 °C

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Reference substance	solvent mixture		
Melting point/freezing point			
No data available			
Decomposition temperature			
No data available			
Flash point			
Value	40	- 42	°C
Method	closed cup		
Ignition temperature			
Value	>	200	°C
Reference substance	solvent mixture		
Oxidising properties			
Not applicable			
Flammability			
Not applicable			
Lower explosion limit			
Value	>	0,6	% vol
Reference substance	solvent mixture		
Upper explosion limit			
Value	<	7,5	% vol
Reference substance	solvent mixture		
Vapour pressure			
Value	<	100	hPa
Reference temperature		50	°C
Reference substance	solvent mixture		
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value	1,09	- 1,20	g/cm ³
Reference temperature		20	°C
Method	DIN 51757		
Solubility in water			
Comments	immiscible		
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	2-butoxyethyl acetate	112-07-2	203-933-3
	log Pow		1,51
	Reference temperature		25 °C
2	2-ethoxy-1-methylethyl acetate	54839-24-6	259-370-9
	log Pow		0,76
	Reference temperature		22 °C
	with reference to	pH 7	
	Source	ECHA	
3	n-butyl acetate	123-86-4	204-658-1
	log Pow		2,3
	Reference temperature		25 °C
	Method	OECD 117	

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Source	ECHA
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Kinematic viscosity			
Value	50	- 55	sec
Reference temperature		20	°C
Method	DIN EN 2431 (6 mm)		

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	
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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	n-butyl acetate	123-86-4	204-658-1
LD50		10760	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		

Acute dermal toxicity (result of the ATE calculation for the mixture)	
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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).
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Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethyl acetate	112-07-2	203-933-3
LD50		appr. 1500	mg/kg bodyweight
Species		rabbit	
Source		ECHA	
2	n-butyl acetate	123-86-4	204-658-1
LD50		> 14112	mg/kg bodyweight
Species		rabbit	
Method		OECD 402	
Source		ECHA	

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
Product Name	
einza mix Lawidur sgl 2K-PU-Buntlack, Basis 2 Stammlack	
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	2-butoxyethyl acetate	112-07-2	203-933-3
LC50		3,91	mg/l
Duration of exposure		4	h
State of aggregation		mist	
Species		rat	
Method		OECD 403	
Source		ECHA	
2	2-ethoxy-1-methylethyl acetate	54839-24-6	259-370-9
LC50		> 6,99	mg/l
Duration of exposure		4	h
State of aggregation		Dust/mist	
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	2-ethoxy-1-methylethyl acetate	54839-24-6	259-370-9
Duration of exposure		4	h
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		non-irritant	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	n-butyl acetate	123-86-4	204-658-1
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		non-irritant	

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.

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1	2-ethoxy-1-methylethyl acetate	54839-24-6	259-370-9
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	Reaction mass of xylene and ethylbenzene	-	905-588-0
Species	rabbit		
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		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	2-butoxyethyl acetate	112-07-2	203-933-3
Route of exposure		Skin	
Species	guinea pig		
Method	440/2008/EC B.6		
Source	ECHA		
Evaluation	non-sensitizing		
2	2-ethoxy-1-methylethyl acetate	54839-24-6	259-370-9
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.
1	2-butoxyethyl acetate	112-07-2	203-933-3
Type of examination		Chromosome aberration test	
Method	OECD 473		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	2-ethoxy-1-methylethyl acetate	54839-24-6	259-370-9
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.		
3	n-butyl acetate	123-86-4	204-658-1
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	n-butyl acetate	123-86-4	204-658-1
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethyl acetate	112-07-2	203-933-3
Species	mouse		
Method	OECD 451		
Source	ECHA		

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Evaluation/classification	Based on available data, the classification criteria are not met.
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STOT - single exposure
No data available

STOT - repeated exposure

No	Substance name	CAS no.	EC no.
1	2-butoxyethyl acetate	112-07-2	203-933-3

Method	OECD 408
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

2	2-ethoxy-1-methylethyl acetate	54839-24-6	259-370-9
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Route of exposure	dermal
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Duration of exposure	3	months
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Species	rabbit
Method	OECD 411
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are met.

3	n-butyl acetate	123-86-4	204-658-1
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Route of exposure	inhalational
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NOAEC	500	ppm
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Duration of exposure	90	day(s)
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Species	rat
Method	EPA OTS 798.2450
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Aspiration hazard

No data available

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

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
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No data available

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)

No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5

LL50	10	mg/l
Duration of exposure	96	h

Species	Oncorhynchus mykiss
Method	OECD 203
Source	ECHA

2	2-butoxyethyl acetate	112-07-2	203-933-3
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LC50	appr.	28	mg/l
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Duration of exposure		96	h
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Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
3	2-ethoxy-1-methylethyl acetate	54839-24-6	259-370-9
LC50		140	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	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.		

Toxicity to fish (chronic)			
No data available			

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
EL50		4,5	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
2	2-butoxyethyl acetate	112-07-2	203-933-3
EC50		37	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	DIN 38412 Part 11		
Source	ECHA		
3	2-ethoxy-1-methylethyl acetate	54839-24-6	259-370-9
EC50		110	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	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.		

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	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.		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5

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EL50		3,1	mg/l
Duration of exposure		72	h
Species	Raphidocelis subcapitata		
Method	OECD 201		
Source	ECHA		
2	2-butoxyethyl acetate	112-07-2	203-933-3
EC50		1570	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	ISO 8692		
Source	ECHA		
3	2-ethoxy-1-methylethyl acetate	54839-24-6	259-370-9
EC50	>	100	mg/l
Duration of exposure		72	h
Species	Desmodemus subspicatus		
Method	OECD 201		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	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		

Toxicity to algae (chronic)

No	Substance name	CAS no.	EC no.
1	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		

Bacteria toxicity

No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
EC50	>	99	mg/l
Duration of exposure		10	min
Species	activated sludge		
Method	OECD 209		
Source	ECHA		
2	2-butoxyethyl acetate	112-07-2	203-933-3
EC20	>=	900	mg/l
Species	activated sludge		
Method	ISO 8192		
Source	ECHA		
3	n-butyl acetate	123-86-4	204-658-1
IC50		356	mg/l
Duration of exposure		40	h
Species	Tetrahymena pyriformis (Protozoa)		
Source	ECHA		

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
Type	BSB		
Value		78	%
Duration		28	d
Method	OECD 301 F		
Source	ECHA		

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Evaluation	readily biodegradable		
2	2-ethoxy-1-methylethyl acetate	54839-24-6	259-370-9
Type	aerobic biodegradation		
Value		100	%
Duration		28	d
Method	OECD 301 D		
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		

Abiotic Degradation			
No	Substance name	CAS no.	EC no.
1	n-butyl acetate	123-86-4	204-658-1
Type	Photolysis		
Half-life		3,3	day(s)
Reference temperature		25	°C
Source	ECHA		

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	n-butyl acetate	123-86-4	204-658-1
BCF		15,3	
Method	Calculation model used (Q)SAR		
Source	ECHA		

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	2-butoxyethyl acetate	112-07-2	203-933-3
log Pow		1,51	
Reference temperature		25	°C
2	2-ethoxy-1-methylethyl acetate	54839-24-6	259-370-9
log Pow		0,76	
Reference temperature		22	°C
with reference to	pH 7		
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		

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
PBT assessment	The substance is not PBT.		
vPvB assessment	The substance is not vPvB.		
Source	ECHA		

12.6 Endocrine disrupting properties

No data available.

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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	08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
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The listed waste code numbers, according to the European Waste Catalogue, are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

Allow paint/varnish to dry out completely in a well-ventilated area and dispose of in residual waste once completely solidified. Dispose of liquid or non-drying residues separately.

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
IMDG	PAINT
ICAO-TI / IATA	Paint

14.3 Transport hazard class(es)

ADR/RID/ADN - Class	3
Label	3
Classification code	F1
Tunnel restriction code	D/E
Hazard identification no.	30
Comments (ADR/RID/ADN)	Containers with a capacity <= 450 ltrs are not subject to ADR-regulations (refer to 2.2.3.1.5.)

IMDG - Class	3
Label	3
Comments (IMDG)	Containers with a capacity <= 450 ltrs are not subjected to IMDG regulations, chapter 4.1, 5.2 and 6.1 (see IMDG-Code 2.3.2.5)

ICAO-TI / IATA - Class	3
Label	3

14.4 Packing group

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

14.5 Environmental hazards

EmS	F-E+S-E
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14.6 Special precautions for user

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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	Calcium carbonate	471-34-1	207-439-9	75
2	Limestone	1317-65-3	215-279-6	75
3	titanium dioxide	13463-67-7	236-675-5	75
4	xylene	1330-20-7	215-535-7	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: P5c

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

VOC content 43,69 %

Directive 2004/42/CE on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products

relevant VOC limit value as referred to in Annex II of Directive 2004/42/CE, Cat. : j, type: lb = 500 g/l

Max. VOC content (limit value) of the product in its ready for use condition = < 500 g/l

National regulations

Water Hazard Class (Germany)

Class

2

Source

Classification according to AwSV (Regulation on facilities for handling substances that are hazardous to water).

Other regulations

GISCODE PU50

PU systems, containing solvents, harmful, sensitising

Other national regulations

Adhere to national regulations for proper handling and use of hazardous materials. Use appropriate personal protective equipment. For example, TRGS (Technical Rules for Hazardous Substances) and the DGUV (German Social Accident Insurance) rules.

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:

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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)

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects.

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.

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.
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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.

This document is an English translation of the legally compliant safety data sheet of the region Germany. This document, including UFI and emergency telephone number, may only be used for placing on the market in the region Germany.

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