

Trade name: einZA Lackspray seidenmatt RAL *

Product no.: 0051172

Current version : 4.0.0, issued: 19.02.2024

Replaced version: 3.0.0, issued: 04.04.2022

Region: GB

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

1.1 Product identifier

Trade name

einZA Lackspray seidenmatt RAL *

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

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)
Aerosol 1; H222
Eye Irrit. 2; H319
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
Danger

Hazardous component(s) to be indicated on label:
acetone
n-butyl acetate

Hazard statement(s)

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Hazard statements (EU)

EUH066	Repeated exposure may cause skin dryness or cracking.
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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.
P211	Do not spray on an open flame or other ignition source.

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P251	Do not pierce or burn, even after use.
P260	Do not breathe spray.
P262	Do not get in eyes, on skin, or on clothing.
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403	Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
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	Classification (EC) 1272/2008 (CLP)	Additional information	%
	CAS / EC / Index / REACH no		Concentration	
1	butane			
	106-97-8 203-448-7 601-004-00-0 01-2119474691-32	Flam. Gas 1A; H220 Press. Gas liq.; H280	>= 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	>= 25.00 - < 50.00	wt%
4	propane			
	74-98-6 200-827-9 601-003-00-5 01-2119486944-21	Flam. Gas 1A; H220 Press. Gas liq.; H280	>= 10.00 - < 25.00	wt%
5	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	< 5.00	wt%

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

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	C, U	-	-	-
4	U	-	-	-

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.

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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. Do not inhale vapours/aerosols. 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

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. Do not breathe steams or mist of the product. For personal protection see section 8. Avoid eye, skin and clothing contact.

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.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

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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

Keep the product in the original packing. Keep container tightly closed. Observe label precautions. Official regulations ruling storage of aerosols must be observed.

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	butane	106-97-8	203-448-7
List of approved workplace exposure limits (WELs) / EH40			
Butane			
	WEL short-term (15 min reference period)	1810 mg/m ³	750 ppm
	WEL long-term (8-hr TWA reference period)	1450 mg/m ³	600 ppm
	Comments	Carc, (only applies if Butane contains more than 0.1% of buta-1,3-diene)	
2	acetone	67-64-1	200-662-2
2000/39/EC			
Acetone			
	WEL long-term (8-hr TWA reference period)	1210 mg/m ³	500 ppm
List of approved workplace exposure limits (WELs) / EH40			
Acetone			
	WEL short-term (15 min reference period)	3620 mg/m ³	1500 ppm
	WEL long-term (8-hr TWA reference period)	1210 mg/m ³	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/m ³	200 ppm
	WEL long-term (8-hr TWA reference period)	724 mg/m ³	150 ppm
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
4	ethyl-acetate	141-78-6	205-500-4
2017/164/EU			
Ethyl acetate			
	WEL short-term (15 min reference period)	1468 mg/m ³	400 ppm
	WEL long-term (8-hr TWA reference period)	734 mg/m ³	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

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	acetone			67-64-1 200-662-2	
	dermal	Long term (chronic)	systemic	186	mg/kg/day
	inhalative	Short term (acut)	local	2420	mg/m ³
	inhalative	Short term (acut)	systemic	1210	mg/m ³
2	n-butyl acetate			123-86-4 204-658-1	
	dermal	Long term (chronic)	systemic	11	mg/kg/day
	dermal	Short term (acut)	systemic	11	mg/kg/day
	inhalative	Long term (chronic)	systemic	300	mg/m ³
	inhalative	Short term (acut)	systemic	600	mg/m ³
	inhalative	Long term (chronic)	local	300	mg/m ³

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3	inhalative	Short term (acut)	local	600	mg/m ³
	ethyl-acetate			141-78-6	
				205-500-4	
	dermal	Long term (chronic)	systemic	63	mg/kg/day
	inhalative	Long term (chronic)	systemic	734	mg/m ³
	inhalative	Short term (acut)	systemic	1468	mg/m ³
	inhalative	Long term (chronic)	local	734	mg/m ³
	inhalative	Short term (acut)	local	1468	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	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/m ³
2	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
3	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/m ³
	inhalative	Short term (acut)	systemic	734	mg/m ³
	inhalative	Long term (chronic)	local	367	mg/m ³
	inhalative	Short term (acut)	local	734	mg/m ³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	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
2	n-butyl acetate		123-86-4	
			204-658-1	
	water	fresh water	0.18	mg/L
	water	marine water	0.018	mg/L
	water	Aqua intermittent	0.36	mg/L
	water	fresh water sediment	0.981	mg/kg dry weight
	water	marine water sediment	0.0981	mg/kg dry weight
soil	-	0.0903	mg/kg	
	sewage treatment plant	-	35.6	mg/L
3	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
	secondary poisoning with reference to: food	-	0.2	g/kg

8.2 Exposure controls

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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. Short term: filter apparatus, Filter A

Eye / face protection

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 nitrile rubber
 Appropriate Material butyl rubber

Other

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

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation	
liquid	
Form	
Aerosol	
Colour	
according to product name	
Odour	
characteristic	
pH value	
No data available	
Boiling point / boiling range	
No data available	
Melting point/freezing point	
No data available	
Decomposition temperature	
No data available	
Flash point	
Not applicable	
Value	< -5 °C
Method	DIN 51755
Reference substance	varnish
Ignition temperature	
Value	490 °C
Flammability	
No data available	
Lower explosion limit	
Value	1.5 % vol
Upper explosion limit	
Value	13 % vol
Vapour pressure	
Value	3 - 4 bar
Reference temperature	20 °C
Value	10.4 bar
Reference temperature	50 °C

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Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value	0.95	g/ml	
Reference temperature	20	°C	
Reference substance	varnish		
Solubility in water			
Comments	essentially insoluble		
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
log Pow			-0.23
Method	QSAR		
Source	ECHA		
2	n-butyl acetate	123-86-4	204-658-1
log Pow			2.3
Reference temperature			25 °C
Method	OECD 117		
Source	ECHA		
3	propane	74-98-6	200-827-9
log Pow	appr.		1.8
Method	QSAR		
Source	ECHA		
4	ethyl-acetate	141-78-6	205-500-4
log Pow			0.68
Reference temperature			25 °C
Source	ECHA		
Kinematic viscosity			
No data available			
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			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
LD50		5800	mg/kg bodyweight

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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
LD50	10760 mg/kg bodyweight
Species	rat
Method	OECD 423
Source	ECHA
3	ethyl-acetate 141-78-6 205-500-4
LD50	> 5600 mg/kg bodyweight
Species	rat
Source	ECHA

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	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.		
2	n-butyl acetate	123-86-4	204-658-1
LD50	>	14112	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
3	ethyl-acetate	141-78-6	205-500-4
LD50	>	20000	mg/kg bodyweight
Species	rabbit		
Source	ECHA		

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	propane	74-98-6	200-827-9
LC50	>	800000	ppmV
Duration of exposure		0.25	h
State of aggregation	Gas		
Species	rat		
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	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.		
2	n-butyl acetate	123-86-4	204-658-1
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
3	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.		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
Species	rabbit		
Method	OECD 405		
Source	ECHA		

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Evaluation	irritant
Evaluation/classification	Based on available data, the classification criteria are met.
2 n-butyl acetate	123-86-4 204-658-1
Species	rabbit
Method	OECD 405
Source	ECHA
Evaluation	non-irritant
3 ethyl-acetate	141-78-6 205-500-4
Species	rabbit
Method	OECD 405
Source	ECHA
Evaluation	low-irritant

Respiratory or skin sensitisation		
No	Substance name	CAS no. EC no.
1	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.	
2	ethyl-acetate	141-78-6 205-500-4
Route of exposure	Skin	
Species	guinea pig	
Method	OECD 406	
Source	ECHA	
Evaluation	non-sensitizing	

Germ cell mutagenicity		
No	Substance name	CAS no. EC no.
1	butane	106-97-8 203-448-7
Type of examination	In vitro Mammalian Chromosomal Aberration Test	
Species	Human Lymphocyte	
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 bacteria	
Species	Salmonella typhimurium	
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.	

Reproduction toxicity		
No	Substance name	CAS no. EC no.
1	butane	106-97-8 203-448-7
Route of exposure	inhalational	
Species	rat	
Method	OECD 422	
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	

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

4	propane	74-98-6	200-827-9
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Route of exposure	inhalational
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NOAEC	12000	ppm
Type of examination	Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	
Species	rat	
Method	OECD 422	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	

Carcinogenicity

No	Substance name	CAS no.	EC no.
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1	acetone	67-64-1	200-662-2
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Route of exposure	dermal
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Type of examination	Toxicity study
Species	mouse
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

STOT - single exposure

No	Substance name	CAS no.	EC no.
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1	ethyl-acetate	141-78-6	205-500-4
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Route of exposure	inhalational
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NOEC	350	ppm
Species	rat	
Source	ECHA	
Effects	May cause drowsiness or dizziness.	
Evaluation/classification	Based on available data, the classification criteria are met.	

STOT - repeated exposure

No	Substance name	CAS no.	EC no.
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1	butane	106-97-8	203-448-7
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Route of exposure	inhalational
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Species	rat	
Method	OECD 422	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	

2	acetone	67-64-1	200-662-2
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Route of exposure	oral
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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
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NOAEC	19000	ppm
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
----------	------------------------	-----------------	------------------

Route of exposure	inhalational
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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.	

4	propane	74-98-6	200-827-9
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Route of exposure	inhalational
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LOAEC	12000	ppm
Species	rat	
Method	OECD 422	

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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
Inhalation may cause irritations of the respiratory tract, allergic reactions, cough, breathing difficulties, headache, nausea and vomiting.

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	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.		
2	n-butyl acetate	123-86-4	204-658-1
LC50		18	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	ethyl-acetate	141-78-6	205-500-4
LC50		220	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Source	ECHA		

Toxicity to fish (chronic)
No data available

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	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.		
2	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.		
3	ethyl-acetate	141-78-6	205-500-4
EC50		3090	mg/l
Duration of exposure		24	h
Species	Daphnia magna		
Source	ECHA		

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		

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Evaluation/classification		Based on available data, the classification criteria are not met.	
2	ethyl-acetate	141-78-6	205-500-4
NOEC		2.4	mg/l
Species	Daphnia magna		
Method	OECD 211		

Toxicity to algae (acute)			
No data available			

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		

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		

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	butane	106-97-8	203-448-7
Type	aerobic biodegradation		
Value		50	%
Duration		3.46	d
Method	QSAR		
Source	ECHA		
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	propane	74-98-6	200-827-9
Type	aerobic biodegradation		
Value		50	%
Duration		3	d
Method	QSAR		
Source	ECHA		
Evaluation	readily biodegradable		
5	ethyl-acetate	141-78-6	205-500-4
Type	COD		
Value		1.69	g O2/g
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)			
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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	acetone	67-64-1	200-662-2
	log Pow		-0.23
	Method	QSAR	
	Source	ECHA	
2	n-butyl acetate	123-86-4	204-658-1
	log Pow		2.3
	Reference temperature		25 °C
	Method	OECD 117	
	Source	ECHA	
3	propane	74-98-6	200-827-9
	log Pow		1.8
	Method	appr. QSAR	
	Source	ECHA	
4	ethyl-acetate	141-78-6	205-500-4
	log Pow		0.68
	Reference temperature		25 °C
	Source	ECHA	

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

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

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

Waste code 08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

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.

Hand over only completely emptied aerosol cans for valuable substance recovery!

Packaging

Waste code 15 01 04; 15 01 11* metallic packaging; metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers

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 UN1950
 IMDG UN1950
 ICAO-TI / IATA UN1950

14.2 UN proper shipping name

ADR/RID/ADN AEROSOLS

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IMDG	AEROSOLS
ICAO-TI / IATA	Aerosols, flammable
14.3 Transport hazard class(es)	
ADR/RID/ADN - Class	2
Label	2.1
Classification code	5F
Tunnel restriction code	D
IMDG - Class	2
Label	2.1
ICAO-TI / IATA - Class	2.1
Label	2.1

14.4 Packing group
Not classified as dangerous in the meaning of transport regulations.

14.5 Environmental hazards
EmS F-D, S-U

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	
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	ethyl-acetate	141-78-6	205-500-4	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: P3a

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

VOC content	62.5	%
VOC-value	650	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.

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

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.

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

C Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
U When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

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

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

Alterations/supplements:

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

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Prod-ID 671277