

Trade name: einZA Isolierweiß Spray, weiß

Product no.: 0079548

Current version : 4.0.0, issued: 04.09.2025

Replaced version: 3.1.0, issued: 25.04.2025

Region: GB

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

1.1 Product identifier

Trade name

einZA Isolierweiß Spray, weiß

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

Relevant identified uses of the substance or mixture

Coatings and paints, thinners, paint removers

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 - H229

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

2-methoxy-1-methylethyl 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.

EUH208

Contains 4-morpholine carbaldehyde. May produce an allergic reaction.

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.

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P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe spray.
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

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.

PBT assessment
No data available.

vPvB assessment
No data available.

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	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%
2	dimethyl ether		
	115-10-6 204-065-8 603-019-00-8 01-2119472128-37	Flam. Gas 1A; H220 Press. Gas; H280	>= 10.00 - < 25.00 wt%
3	propane		
	74-98-6 200-827-9 601-003-00-5 01-2119486944-21	Flam. Gas 1A; H220 Press. Gas liq.; H280	>= 5.00 - < 10.00 wt%
4	butane		
	106-97-8 203-448-7 601-004-00-0 01-2119474691-32	Flam. Gas 1A; H220 Press. Gas liq.; H280	< 5.00 wt%
5	barium sulfate, natural		
	7727-43-7 231-784-4 - 01-2119491274-35	-	< 5.00 wt%
6	2-methoxy-1-methylethyl acetate		
	108-65-6 203-603-9 607-195-00-7 01-2119475791-29	Flam. Liq. 3; H226 STOT SE 3; H336	< 5.00 wt%
7	Reaction mass of xylene and ethylbenzene		
	- 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	< 2.50 wt%
8	isobutane		
	75-28-5 200-857-2 601-004-00-0 01-2119485395-27	Flam. Gas 1A; H220 Press. Gas liq.; H280	< 2.50 wt%
9	4-morpholine carbaldehyde		

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	4394-85-8 224-518-3 - 01-2119987993-12	Skin Sens. 1B; H317	< 0.50	wt%
10	titanium dioxide			
	13463-67-7 236-675-5 - 01-2119489379-17	-	>= 10.00 - < 25.00	wt%

Full text of H- and EUH-phrases, if not already mentioned in section 2.2: see section 16.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	U	-	-	-
3	U	-	-	-
4	C, U	-	-	-
7	-	STOT RE 2; H373: C >= 10%	-	-
8	C, 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.

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.

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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

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	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
2	dimethyl ether	115-10-6	204-065-8
	2000/39/EC		
	Dimethylether		
	WEL long-term (8-hr TWA reference period)	1920	mg/m ³ 1000 ppm
List of approved workplace exposure limits (WELs) / EH40			
	Dimethyl ether		
	WEL short-term (15 min reference period)	958	mg/m ³ 500 ppm
	WEL long-term (8-hr TWA reference period)	766	mg/m ³ 400 ppm
3	titanium dioxide	13463-67-7	236-675-5
	List of approved workplace exposure limits (WELs) / EH40		
	Titanium dioxide		
	total inhalable dust		
	WEL long-term (8-hr TWA reference period)	10	mg/m ³
List of approved workplace exposure limits (WELs) / EH40			
	Titanium dioxide		

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	respirable dust				
	WEL long-term (8-hr TWA reference period)	4	mg/m ³		
4	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)			
5	barium sulfate, natural	7727-43-7		231-784-4	
	List of approved workplace exposure limits (WELs) / EH40				
	Barium sulphate				
	respirable dust				
	WEL long-term (8-hr TWA reference period)	4	mg/m ³		
	List of approved workplace exposure limits (WELs) / EH40				
	Barium sulphate				
	total inhalable dust				
	WEL long-term (8-hr TWA reference period)	10	mg/m ³		
	2006/15/EC				
	Barium (soluble compounds as Ba)				
	WEL long-term (8-hr TWA reference period)	0.5	mg/m ³		
6	2-methoxy-1-methylethyl acetate	108-65-6		203-603-9	
	List of approved workplace exposure limits (WELs) / EH40				
	1-Methoxypropylacetate				
	WEL short-term (15 min reference period)	548	mg/m ³	100	ppm
	WEL long-term (8-hr TWA reference period)	274	mg/m ³	50	ppm
	Comments	Sk			
	2000/39/EC				
	2-Methoxy-1-methylethylacetate				
	WEL short-term (15 min reference period)	550	mg/m ³	100	ppm
	WEL long-term (8-hr TWA reference period)	275	mg/m ³	50	ppm
	Skin resorption / sensibilisation	Skin			

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	acetone			67-64-1 200-662-2	
	dermal	Long term (chronic)	systemic	186	mg/kg/day
	inhalative	Short term (acute)	local	2420	mg/m ³
	inhalative	Long term (chronic)	systemic	1210	mg/m ³
2	dimethyl ether			115-10-6 204-065-8	
	inhalative	Long term (chronic)	systemic	1894	mg/m ³
3	2-methoxy-1-methylethyl acetate			108-65-6 203-603-9	
	dermal	Long term (chronic)	systemic	796	mg/kg/day
	inhalative	Long term (chronic)	systemic	275	mg/m ³
	inhalative	Short term (acute)	local	550	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 (acute)	systemic	442.00	mg/m ³
	inhalative	Short term (acute)	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

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	dimethyl ether			115-10-6 204-065-8	

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3	inhalative	Long term (chronic)	systemic	471	mg/m ³
	2-methoxy-1-methylethyl acetate			108-65-6	203-603-9
	oral	Long term (chronic)	systemic	36	mg/kg/day
	oral	Short term (acute)	systemic	500	mg/kg/day
	dermal	Long term (chronic)	systemic	320	mg/kg/day
	inhalative	Long term (chronic)	systemic	33	mg/m ³
	inhalative	Long term (chronic)	local	33	mg/m ³
4	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 (acute)	systemic	260.00	mg/m ³
	inhalative	Long term (chronic)	systemic	65.30	mg/m ³
	inhalative	Short term (acute)	local	260.00	mg/m ³
	inhalative	Long term (chronic)	local	65.30	mg/m ³

PNEC values

No	Substance name	ecological compartment	Type	CAS / EC no	Value
1	acetone			67-64-1 200-662-2	
	water	fresh water		10.6	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	dimethyl ether			115-10-6 204-065-8	
	water	fresh water		0.155	mg/L
	water	Aqua intermittent		1.549	mg/L
	water	marine water		0.016	mg/L
	water	fresh water sediment		0.681	mg/kg dry weight
	water	marine water sediment		0.069	mg/kg dry weight
	soil	-		0.045	mg/kg dry weight
	sewage treatment plant	-		160	mg/L
3	2-methoxy-1-methylethyl acetate			108-65-6 203-603-9	
	water	fresh water		0.635	mg/L
	water	marine water		0.064	mg/L
	water	fresh water sediment		3.29	mg/kg
	with reference to: dry weight				
	water	marine water sediment		0.329	mg/kg
	with reference to: dry weight				
	soil	-		0.29	mg/kg
	with reference to: dry weight				
	sewage treatment plant	-		100	mg/L
4	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

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.

Respirator A2/P3

Eye / face protection

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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	butyl 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

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			
reason for missing pH	substance/mixture is non-soluble (in water)		
Boiling point / boiling range			
Not applicable			
Comments	aerosol		
Melting point/freezing point			
No data available			
Decomposition temperature			
No data available			
Flash point			
Not applicable			
Comments	Aerosol		
Ignition temperature			
Value	240	°C	
Reference substance	dimethylether		
Flammability			
Extremely flammable aerosol			
Lower explosion limit			
Value	2.6	% vol	
Reference substance	Acetone		
Upper explosion limit			
Value	26.2	% vol	
Reference substance	dimethylether		
Vapour pressure			
Value	4000	hPa	
Reference temperature	20	°C	
Reference substance	dimethylether		
Value	11400	hPa	
Reference temperature	50	°C	
Relative vapour density			
No data available			
Relative density			
No data available			
Density			

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Value	0.9	g/cm ³
Reference temperature	20	°C
Solubility in water		
Comments	Not miscible or difficult to mix	
Solubility		
No data available		
Partition coefficient n-octanol/water (log value)		
No	Substance name	CAS no.
1	acetone	67-64-1
		EC no.
		200-662-2
log Pow		-0.23
Method	QSAR	
Source	ECHA	
2	propane	74-98-6
		200-827-9
log Pow	appr.	1.8
Reference temperature		20 °C
with reference to	pH 7	
Method	QSAR	
Source	ECHA	
3	butane	106-97-8
		203-448-7
log Pow		1.09
Reference temperature		20 °C
with reference to	pH 7	
Method	ECHA	
Source		
4	2-methoxy-1-methylethyl acetate	108-65-6
		203-603-9
log Pow		1.2
Reference temperature		20 °C
Method	OECD 117	
Source	ECHA	
5	isobutane	75-28-5
		200-857-2
log Pow		2.80
Reference temperature		20 °C
with reference to	pH 7	
Method	ECHA	
Source		
Kinematic viscosity		
No data available		
Solids content		
Value	28.3	%
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

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Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	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.		
2	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
LD50		5155	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Acute dermal toxicity (result of the ATE calculation for the mixture)	
Product Name	
einzA Isolierweiß Spray, weiß	
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	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
Product Name	
einzA Isolierweiß Spray, weiß	
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	dimethyl ether	115-10-6	204-065-8
LC50		164000	ppmV
Duration of exposure		4	h
State of aggregation	Gas		
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.		
3	butane	106-97-8	203-448-7
LC50		539600	ppmV
Duration of exposure		4	h
State of aggregation	Gas		
Species	rat		
with reference to	isomeric mixture		
Source	ECHA		
4	isobutane	75-28-5	200-857-2
LC50		520400	ppmV
Duration of exposure		2	h
State of aggregation	Gas		
Species	mouse		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Skin corrosion/irritation		
No	Substance name	EC no.

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1	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
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.		
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	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
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	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.		
2	dimethyl ether	115-10-6	204-065-8
Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typhimurium / Escherichia coli		
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	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 mammalian cells		
Species	Chinese hamster Ovary (CHO)		
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	propane	74-98-6	200-827-9
Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typh. TA98, TA100, TA1535, TA1537, TA1538		

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Method	OECD 471
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
4	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.
5	2-methoxy-1-methylethyl acetate 108-65-6 203-603-9
Type of examination	in vitro gene mutation study in bacteria
Method	OECD 471
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
6	isobutane 75-28-5 200-857-2
Type of examination	in vitro gene mutation study in bacteria
Species	Salmonella typh. TA98, TA100, TA1535, TA1537, TA1538
Method	Value taken from the literature
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Reproduction toxicity	
No	Substance name CAS no. EC no.
1	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.
2	dimethyl ether 115-10-6 204-065-8
Route of exposure	inhalational
Type of examination	Repeated Dose Inhalation Toxicity
Species	rat
Method	OECD 452
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Route of exposure	inhalational
NOAEL	40000 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	propane 74-98-6 200-827-9
Route of exposure	inhalational
NOAEC	16000 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.
4	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.
5	isobutane 75-28-5 200-857-2
Route of exposure	inhalational
NOAEC	9000 ppm
Type of examination	Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test

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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.
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	dimethyl ether	115-10-6	204-065-8
Route of exposure		inhalational	
NOAEC		47106	mg/m ³
Type of examination		Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	
Species		rat	
Method		OECD 453	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT - single exposure	
No data available	

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
Route of exposure		oral	
NOAEL		10000	ppm
Species		rat	
Method		OECD 408	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		inhalational	
NOAEC		19000	ppm
Species		rat	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	dimethyl ether	115-10-6	204-065-8
Route of exposure		inhalational	
Species		rat	
Method		OECD 452	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	propane	74-98-6	200-827-9
Route of exposure		inhalational	
NOAEC		16000	ppm
Species		rat	
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
4	butane	106-97-8	203-448-7
Route of exposure		inhalational	
NOAEC		16000	ppm
Species with reference to		rat	
Method		CAS 74-78-0	
Source		OECD 422	
Evaluation/classification		ECHA	
		Based on available data, the classification criteria are not met.	
5	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
Route of exposure		oral	
Species		rats (male/female)	
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
6	isobutane	75-28-5	200-857-2
Route of exposure		inhalational	
		9000	ppm
Species		rat	

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Method	OECD 422
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Aspiration hazard
No data available

Endocrine disrupting properties
Product Name
einZA Isolierweiß Spray, weiß
Pursuant to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605, the product does not contain any endocrine disruptors in a concentration of 0.1% weight by weight and above.
Source supplier

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

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	dimethyl ether	115-10-6	204-065-8
LC50	>	4100	mg/l
Duration of exposure		96	h
Species	Poecilia reticulata		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
LC50	100	- 180	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
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	dimethyl ether	115-10-6	204-065-8
EC50	>	4400	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	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
EC50	>	500	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EU Method C.2		
Source	ECHA		

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2

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NOEC		2212	mg/l
Duration of exposure		28	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
NOEC	>=	100	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	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
EC50	>	1000	mg/l
Duration of exposure		96	h
Species	Raphidocelis subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	dimethyl ether	115-10-6	204-065-8
EC10	>	1600	mg/l
Species	Pseudomonas putida		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
EC10	>	1000	mg/l
Duration of exposure		30	min
Species	activated sludge		
Method	OECD 209		
Source	ECHA		

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	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		
2	dimethyl ether	115-10-6	204-065-8
Type	aerobic biodegradation		
Value		5	%
Duration		28	d
Method	OECD 301 D		
Source	ECHA		
Evaluation	not readily biodegradable		
3	butane	106-97-8	203-448-7
Type	aerobic biodegradation		
Value		50	%
Duration		3.46	d
Method	QSAR		
Source	ECHA		
4	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
Type	aerobic biodegradation		
Value		83	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
5	isobutane	75-28-5	200-857-2
Type	aerobic biodegradation		

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Value	50	%
Duration	3.1	d
Method	QSAR	
Source	ECHA	
Evaluation	readily biodegradable	

12.3 Bioaccumulative potential

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	propane	74-98-6	200-827-9
log Pow		appr.	1.8
Reference temperature		20	°C
with reference to		pH 7	
Method		QSAR	
Source		ECHA	
3	butane	106-97-8	203-448-7
log Pow		1.09	
Reference temperature		20	°C
with reference to		pH 7	
Source		ECHA	
4	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
log Pow		1.2	
Reference temperature		20	°C
Method		OECD 117	
Source		ECHA	
5	isobutane	75-28-5	200-857-2
log Pow		2.80	
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 Isolierweiß Spray, weiß			
PBT assessment		No data available.	
vPvB assessment		No data available.	
No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
PBT assessment		The substance is not PBT.	
vPvB assessment		The substance is not vPvB.	
Source		ECHA	
2	butane	106-97-8	203-448-7
PBT assessment		The substance is not PBT.	
vPvB assessment		The substance is not vPvB.	

12.6 Endocrine disrupting properties

Endocrine disrupting properties	
Product Name	
einZA Isolierweiß Spray, weiß	
Pursuant to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605, the product does not contain any endocrine disruptors in a concentration of 0.1% weight by weight and above.	
Source	supplier

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

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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
 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

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

14.5 Environmental hazards

IMDG Symbol "fish and tree"
 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
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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	titanium dioxide	13463-67-7	236-675-5	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	74 %
VOC-value	660 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)

H220	Extremely flammable gas.
H222 - H229	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure

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

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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