

**Trade name:** einzA Isolierweiß Spray, weiß**Product no.:** 0079548**Current version :** 3.0.0, issued: 11.11.2024**Replaced version:** 2.0.0, issued: 12.09.2024**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**

primer

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**

einzA Farben GmbH &amp; 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

Aquatic Chronic 2; H411

Asp. Tox. 1; H304

Skin Irrit. 2; H315

STOT SE 3; H336

**Classification information**

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

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

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

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS02



GHS07



GHS09

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane

**Hazard statement(s)**

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

H315

Causes skin irritation.

H336

May cause drowsiness or dizziness.

H411

Toxic to aquatic life with long lasting effects.

**Precautionary statement(s)**

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P103

Read carefully and follow all instructions.

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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.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing dust/fume/gas/mist/vapours/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	<b>Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b>		
-	927-241-2	Aquatic Chronic 3; H412	>= 10.00 - < 25.00 wt%
-	01-2119471843-32	Asp. Tox. 1; H304 Flam. Liq. 3; H226 STOT SE 3; H336 EUH066	
2	<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>		
-	64742-49-0	Aquatic Chronic 2; H411	>= 10.00 - < 25.00 wt%
-	921-024-6	Flam. Liq. 2; H225	
-	649-328-00-1	Skin Irrit. 2; H315	
-	01-2119475514-35	STOT SE 3; H336 Asp. Tox. 1; H304	
3	<b>butane</b>		
-	106-97-8	Flam. Gas 1A; H220	>= 10.00 - < 25.00 wt%
-	203-448-7	Press. Gas liq.; H280	
-	601-004-00-0		
-	01-2119474691-32		
4	<b>dimethyl ether</b>		
-	115-10-6	Flam. Gas 1A; H220	>= 10.00 - < 25.00 wt%
-	204-065-8	Press. Gas; H280	
-	603-019-00-8		
-	01-2119472128-37		
5	<b>propane</b>		
-	74-98-6	Flam. Gas 1A; H220	>= 10.00 - < 25.00 wt%
-	200-827-9	Press. Gas liq.; H280	
-	601-003-00-5		
-	01-2119486944-21		
6	<b>Hydrocarbons, C8-C9, isoalkanes</b>		
-	932-020-9	Asp. Tox. 1; H304	>= 5.00 - < 10.00 wt%
-	01-2119548395-31	Aquatic Chronic 2; H411 Flam. Liq. 3; H226 Skin Irrit. 2; H315 STOT SE 3; H336	
7	<b>isobutane</b>		
-	75-28-5	Flam. Gas 1A; H220	>= 5.00 - < 10.00 wt%
-	200-857-2	Press. Gas liq.; H280	
-	601-004-00-0		
-	01-2119485395-27		
8	<b>cyclohexane</b>		
-	110-82-7	Aquatic Acute 1; H400	< 2.50 wt%
-	203-806-2	Aquatic Chronic 1; H410	
-	601-017-00-1	Asp. Tox. 1; H304	
-	01-2119463273-41	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336	

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9	n-hexane		
	110-54-3 203-777-6 601-037-00-0 -	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Flam. Liq. 2; H225 Repr. 2; H361f*** Skin Irrit. 2; H315 STOT RE 2*; H373** 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.

(\*, \*\*, \*\*\*, \*\*\*\*) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	P	-	-	-
3	C, U	-	-	-
4	U	-	-	-
5	U	-	-	-
7	C, U	-	-	-
9	-	STOT RE 2; H373: C >= 5%	-	-

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, CO<sub>2</sub>, powders, water spray

#### Unsuitable extinguishing media

water jet.

### 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Toxic pyrolysis products; Exposure to decomposition products may cause a health hazard.

### 5.3 Advice for firefighters

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses. Appropriate breathing apparatus may be required.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Exclude sources of ignition and ventilate the area. Do not inhale vapours/aerosols. Refer to protective measures listed in sections 7 and 8.

#### For emergency responders

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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**

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
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
	Butane		
	WEL short-term (15 min reference period)	1810	mg/m <sup>3</sup> 750 ppm
	WEL long-term (8-hr TWA reference period)	1450	mg/m <sup>3</sup> 600 ppm
	Comments	Carc. (only applies if Butane contains more than 0.1% of buta-1,3-diene)	
2	dimethyl ether	115-10-6	204-065-8
	2000/39/EC		
	Dimethylether		
	WEL long-term (8-hr TWA reference period)	1920	mg/m <sup>3</sup> 1000 ppm
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
	Dimethyl ether		
	WEL short-term (15 min reference period)	958	mg/m <sup>3</sup> 500 ppm
	WEL long-term (8-hr TWA reference period)	766	mg/m <sup>3</sup> 400 ppm
3	cyclohexane	110-82-7	203-806-2
	2006/15/EC		
	Cyclohexane		
	WEL long-term (8-hr TWA reference period)	700	mg/m <sup>3</sup> 200 ppm
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
	Cyclohexane		
	WEL short-term (15 min reference period)	1050	mg/m <sup>3</sup> 300 ppm

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	WEL long-term (8-hr TWA reference period)	350	mg/m <sup>3</sup>	100	ppm
4	n-hexane	110-54-3		203-777-6	
	2006/15/EC				
	n-Hexane				
	WEL long-term (8-hr TWA reference period)	72	mg/m <sup>3</sup>	20	ppm
	List of approved workplace exposure limits (WELs) / EH40				
	n-Hexane				
	WEL long-term (8-hr TWA reference period)	72	mg/m <sup>3</sup>	20	ppm

**DNEL, DMEL and PNEC values****DNEL values (worker)**

DNEL values (worker)					
No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics			-	
				927-241-2	
	dermal	Long term (chronic)	systemic	77	mg/kg/day
	inhalative	Long term (chronic)	systemic	871	mg/m³
2	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane			64742-49-0	
				921-024-6	
	dermal	Long term (chronic)	systemic	773	mg/kg/day
	inhalative	Long term (chronic)	systemic	2035	mg/m³
3	dimethyl ether			115-10-6	
				204-065-8	
	inhalative	Long term (chronic)	systemic	1894	mg/m³
4	Hydrocarbons, C8-C9, isoalkanes			-	
				932-020-9	
	dermal	Long term (chronic)	systemic	773	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	2035	mg/m³
5	cyclohexane			110-82-7	
				203-806-2	
	dermal	Long term (chronic)	systemic	2016	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	700	mg/m³
	inhalative	Short term (acute)	systemic	1400	mg/m³
	inhalative	Long term (chronic)	local	700	mg/m³
	inhalative	Short term (acute)	local	1400	mg/m³

**DNEL value (consumer)**

DNEL value (consumer)					
No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics			- 927-241-2	
	oral	Long term (chronic)	systemic	46	mg/kg/day
	dermal	Long term (chronic)	systemic	46	mg/kg/day
	inhalative	Long term (chronic)	systemic	185	mg/m³
2	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane			64742-49-0 921-024-6	
	oral	Long term (chronic)	systemic	699	mg/kg/day
	dermal	Long term (chronic)	systemic	699	mg/kg/day
	inhalative	Long term (chronic)	systemic	608	mg/m³
3	dimethyl ether			115-10-6 204-065-8	
	inhalative	Long term (chronic)	systemic	471	mg/m³
4	Hydrocarbons, C8-C9, isoalkanes			- 932-020-9	
	oral	Long term (chronic)	systemic	699	mg/kg bw/day
	dermal	Long term (chronic)	systemic	699	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	608	mg/m³
5	cyclohexane			110-82-7 203-806-2	
	oral	Long term (chronic)	systemic	59.4	mg/kg bw/day
	dermal	Long term (chronic)	systemic	1186	mg/kg
	inhalative	Long term (chronic)	systemic	206	mg/m³
	inhalative	Short term (acute)	systemic	412	mg/m³
	inhalative	Long term (chronic)	local	206	mg/m³
	inhalative	Short term (acute)	local	412	mg/m³

**PNEC values**

No	Substance name	CAS / EC no
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	ecological compartment	Type	Value
1	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
2	cyclohexane		110-82-7 203-806-2
	water	fresh water	44.7 µg/L
	water	marine water	4.47 µg/L
	water	fresh water sediment	3.6 mg/kg dry weight
	water	marine water sediment	0.36 mg/kg dry weight
	soil	-	0.694 mg/kg dry weight
	sewage treatment plant	-	3.24 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. 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.

#### 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

<b>State of aggregation</b>	
liquid	
<b>Form</b>	
Aerosol	
<b>Colour</b>	
according to product name	
<b>Odour</b>	
characteristic	
<b>pH value</b>	
reason for missing pH	substance/mixture is non-soluble (in water)
<b>Boiling point / boiling range</b>	
Value	-44.5 °C
<b>Melting point/freezing point</b>	
No data available	
<b>Decomposition temperature</b>	
No data available	
<b>Flash point</b>	
Value	< 0 °C

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Ignition temperature			
Value	235 °C		
Auto-ignition temperature			
Comments	Product is not selfigniting.		
Explosive properties			
The product is not explosive, but the formation of explosive vapour/air mixtures is possible.			
Flammability			
No data available			
Lower explosion limit			
Value	1.5 % vol		
Upper explosion limit			
Value	18.6 % vol		
Vapour pressure			
Value	8300	hPa	
Reference temperature	20	°C	
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value	0.785	g/cm³	
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.	EC no.
1	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	921-024-6
log Pow	2.96	- 3.78	
Reference temperature		20	°C
with reference to	pH 7		
Method	QSAR		
Source	ECHA		
2	propane	74-98-6	200-827-9
log Pow	appr.	1.8	
Method	QSAR		
Source	ECHA		
3	isobutane	75-28-5	200-857-2
log Pow		2.80	
Reference temperature		20	°C
with reference to	pH 7		
Source	ECHA		
4	cyclohexane	110-82-7	203-806-2
log Pow		3.44	
Reference temperature		25	°C
with reference to	pH 7		
Source	ECHA		
Kinematic viscosity			
No data available			
Solids content			
Value	24.6 %		
Particle characteristics			
No data available			

## 9.2 Other information

<b>Other information</b>			
No data available.			

## SECTION 10: Stability and reactivity

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**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	Hydrocarbons, C8-C9, isoalkanes	-	932-020-9
LD50	>	7100	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	cyclohexane	110-82-7	203-806-2
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C8-C9, isoalkanes	-	932-020-9
LD50	>	2200	mg/kg bodyweight
Species	rabbit		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	cyclohexane	110-82-7	203-806-2
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	921-024-6
LC50	>	25.2	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	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.		
3	propane	74-98-6	200-827-9
LC50	>	800000	ppmV
Duration of exposure		0.25	h
State of aggregation	Gas		



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Species	rat
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>4</b>	<b>isobutane</b>
	<b>75-28-5</b>
	<b>200-857-2</b>
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.
<b>5</b>	<b>cyclohexane</b>
	<b>110-82-7</b>
	<b>203-806-2</b>
LC50	> 19.07 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.
<b>Skin corrosion/irritation</b>	
<b>No</b>	<b>Substance name</b>
	<b>CAS no.</b>
	<b>EC no.</b>
<b>1</b>	<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>
	<b>64742-49-0</b>
	<b>921-024-6</b>
Species	rabbit
Method	OECD 404
Source	ECHA
Evaluation	irritant
Evaluation/classification	Based on available data, the classification criteria are met.
<b>Serious eye damage/irritation</b>	
<b>No</b>	<b>Substance name</b>
	<b>CAS no.</b>
	<b>EC no.</b>
<b>1</b>	<b>Hydrocarbons, C8-C9, isoalkanes</b>
	<b>-</b>
	<b>932-020-9</b>
Species	rabbit
Method	EPA OPPTS 870.2400
Source	ECHA
Evaluation	non-irritant
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitisation</b>	
<b>No</b>	<b>Substance name</b>
	<b>CAS no.</b>
	<b>EC no.</b>
<b>1</b>	<b>cyclohexane</b>
	<b>110-82-7</b>
	<b>203-806-2</b>
Route of exposure	Skin
Species	guinea pig
Method	Buehler
Source	ECHA
Evaluation	non-sensitizing
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	
<b>No</b>	<b>Substance name</b>
	<b>CAS no.</b>
	<b>EC no.</b>
<b>1</b>	<b>butane</b>
	<b>106-97-8</b>
	<b>203-448-7</b>
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.
<b>2</b>	<b>dimethyl ether</b>
	<b>115-10-6</b>
	<b>204-065-8</b>
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.

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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.
<b>3</b>	<b>isobutane</b> <b>75-28-5</b> <b>200-857-2</b>
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.
<b>4</b>	<b>cyclohexane</b> <b>110-82-7</b> <b>203-806-2</b>
Type of examination	in vitro gene mutation study in bacteria
Species	S. typhimurium TA 1535, TA 1537, TA 98 and TA 100
Method	OECD 471
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>butane</b>	<b>106-97-8</b>	<b>203-448-7</b>
Route of exposure		inhalational	
Species		rat	
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>2</b>	<b>dimethyl ether</b>	<b>115-10-6</b>	<b>204-065-8</b>
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.	
<b>3</b>	<b>propane</b>	<b>74-98-6</b>	<b>200-827-9</b>
Route of exposure		inhalational	
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.	
<b>4</b>	<b>isobutane</b>	<b>75-28-5</b>	<b>200-857-2</b>
Route of exposure		inhalational	
NOAEC		9000	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.
<b>1</b>	<b>dimethyl ether</b>	<b>115-10-6</b>	<b>204-065-8</b>
Route of exposure		inhalational	
NOAEC		47106	mg/m <sup>3</sup>
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.	

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STOT - single exposure			
No data available			
STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	921-024-6
Route of exposure		inhalational	
NOAEC		14000	mg/m³
Species		rat	
Source		ECHA	
2	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.	
3	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.	
4	propane	74-98-6	200-827-9
Route of exposure		inhalational	
LOAEC		12000	ppm
Species		rat	
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
5	Hydrocarbons, C8-C9, isoalkanes	-	932-020-9
Route of exposure		inhalational	
NOAEC		1200	ppm
Duration of exposure		90	d
Species		rat	
Method		OECD 413	
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	
Species		9000	ppm
Method		rat	
Source		OECD 422	
Evaluation/classification		ECHA	
		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	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	921-024-6
LC50		11.4	mg/l

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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.	
<b>2</b>	<b>dimethyl ether</b>	<b>115-10-6 204-065-8</b>
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.	
<b>3</b>	<b>cyclohexane</b>	<b>110-82-7 203-806-2</b>
LC50	4.53	mg/l
Duration of exposure	96	h
Species	Pimephales promelas	
Method	OECD 203	
Source	ECHA	

**Toxicity to fish (chronic)**

No data available

**Toxicity to Daphnia (acute)**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b>	<b>-</b>	<b>927-241-2</b>
EL50	> 22	- 46	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 met.		
<b>2</b>	<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>921-024-6</b>
EL50		3	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 met.		
<b>3</b>	<b>dimethyl ether</b>	<b>115-10-6</b>	<b>204-065-8</b>
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.		
<b>4</b>	<b>cyclohexane</b>	<b>110-82-7</b>	<b>203-806-2</b>
EC50		0.9	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

**Toxicity to Daphnia (chronic)**

No data available

**Toxicity to algae (acute)**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>921-024-6</b>
EL50		30	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
<b>2</b>	<b>cyclohexane</b>	<b>110-82-7</b>	<b>203-806-2</b>
ErC50	>	4.425	mg/l
Duration of exposure		72	h
Species	Raphidocelis subcapitata		
Method	OECD 201		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

**Toxicity to algae (chronic)**

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No	Substance name	CAS no.	EC no.
1	cyclohexane	110-82-7	203-806-2
NOEC		0.9	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

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.		

## 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	927-241-2
Type	aerobic biodegradation		
Value		89	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
2	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	921-024-6
Value		98	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
3	butane	106-97-8	203-448-7
Type	aerobic biodegradation		
Value		50	%
Duration		3.46	d
Method	QSAR		
Source	ECHA		
4	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		
5	propane	74-98-6	200-827-9
Type	aerobic biodegradation		
Value		50	%
Duration		3	d
Method	QSAR		
Source	ECHA		
Evaluation	readily biodegradable		
6	Hydrocarbons, C8-C9, isoalkanes	-	932-020-9
Type	aerobic biodegradation		
Value		51.3	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	inherently biodegradable		
7	isobutane	75-28-5	200-857-2
Type	aerobic biodegradation		
Value		50	%
Duration		3.1	d
Method	QSAR		
Source	ECHA		
Evaluation	readily biodegradable		
8	cyclohexane	110-82-7	203-806-2
Type	aerobic biodegradation		

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Value	77	%
Duration	28	d
Method	OECD 301 F	
Source	ECHA	
Evaluation	readily biodegradable	

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	921-024-6
log Pow	2.96	-	3.78
Reference temperature			20 °C
with reference to	pH 7		
Method	QSAR		
Source	ECHA		
2	propane	74-98-6	200-827-9
log Pow	appr.	1.8	
Method	QSAR		
Source	ECHA		
3	isobutane	75-28-5	200-857-2
log Pow		2.80	
Reference temperature		20	°C
with reference to	pH 7		
Source	ECHA		
4	cyclohexane	110-82-7	203-806-2
log Pow		3.44	
Reference temperature		25	°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.

**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****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

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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**

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	cyclohexane	110-82-7	203-806-2	57, 75
2	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	921-024-6	75
3	n-hexane	110-54-3	203-777-6	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: E2, P3a  
If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.

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

VOC-value 75.4 %

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## National regulations

### **Other national regulations**

Adhere to national regulations for proper handling and use of hazardous materials. Use appropriate personal protective equipment.

## **15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

## **SECTION 16: Other information**

### **Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

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

EUH066	Repeated exposure may cause skin dryness or cracking.
H220	Extremely flammable gas.
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.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

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.
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.
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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