

Trade name: einza Lackspray 96-530 Zinkspray**Product no.:** 0044232**Current version :** 3.0.0, issued: 02.09.2024**Replaced version:** 2.1.0, issued: 07.04.2022**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****einza Lackspray 96-530 Zinkspray****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
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30179 Hannover

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Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone numberFor 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
Eye Irrit. 2; H319
STOT SE 3; H336
Asp. Tox. 1; H304**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:

ethyl-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.
H411 Toxic to aquatic life with long lasting effects.**Hazard statements (EU)**

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statement(s)P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

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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.
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	>= 10.00 - < 25.00	wt%
2	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	>= 10.00 - < 25.00	wt%
3	zinc powder - zinc dust (stabilized)			
	7440-66-6 231-175-3 030-001-01-9 01-2119467174-37	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2.50 - < 25.00	wt%
4	n-butyl acetate			
	123-86-4 204-658-1 607-025-00-1 -	EUH066 Flam. Liq. 3; H226 STOT SE 3; H336	>= 10.00 - < 25.00	wt%
5	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%
6	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics			
	- 918-481-9 - 01-2119457273-39	Asp. Tox. 1; H304 EUH066 Flam. Liq. 3; H226	>= 5.00 - < 10.00	wt%
7	xylene			
	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32	Flam. Liq. 3; H226 Acute Tox. 4; H312 Skin Irrit. 2; H315 Acute Tox. 4; H332	< 5.00	wt%
8	aluminium powder (stabilised)			
	7429-90-5 231-072-3 013-002-00-1 01-2119529243-45	Flam. Sol. 1; H228 Water-react. 2; H261	< 2.50	wt%

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

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No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	C, U	-	-	-
5	U	-	-	-
7	C	-	-	-
8	T	-	-	-

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.

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.

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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	
	List of approved workplace exposure limits (WELs) / EH40				
	Butane				
	WEL short-term (15 min reference period)	1810	mg/m³	750	ppm
	WEL long-term (8-hr TWA reference period)	1450	mg/m³	600	ppm
	Comments	Carc, (only applies if Butane contains more than 0.1% of buta-1,3-diene)			
2	ethyl-acetate	141-78-6		205-500-4	
	2017/164/EU				
	Ethyl acetate				
	WEL short-term (15 min reference period)	1468	mg/m³	400	ppm
	WEL long-term (8-hr TWA reference period)	734	mg/m³	200	ppm
	List of approved workplace exposure limits (WELs) / EH40				
	Ethyl acetate				
	WEL short-term (15 min reference period)			400	ppm
	WEL long-term (8-hr TWA reference period)			200	ppm
3	n-butyl acetate	123-86-4		204-658-1	
	List of approved workplace exposure limits (WELs) / EH40				
	Butyl acetate				
	WEL short-term (15 min reference period)	966	mg/m³	200	ppm
	WEL long-term (8-hr TWA reference period)	724	mg/m³	150	ppm
	EU 2019/1831				
	n-Butyl acetate				
	WEL short-term (15 min reference period)	723	mg/m³	150	ppm
	WEL long-term (8-hr TWA reference period)	241	mg/m³	50	ppm
4	xylene	1330-20-7		215-535-7	
	2000/39/EC				
	Xylene, mixed isomers, pure				
	WEL short-term (15 min reference period)	442	mg/m³	100	ppm
	WEL long-term (8-hr TWA reference period)	221	mg/m³	50	ppm
	Skin resorption / sensibilisation	Skin			
	List of approved workplace exposure limits (WELs) / EH40				
	Xylene, o-, m-, p- or mixed isomers				
	WEL short-term (15 min reference period)	441	mg/m³	100	ppm

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	WEL long-term (8-hr TWA reference period)	220	mg/m ³	50	ppm
	Comments	Sk,BMGV			
5	aluminium powder (stabilised)	7429-90-5		231-072-3	
	List of approved workplace exposure limits (WELs) / EH40				
	Aluminium metal				
	total inhalable dust				
	WEL long-term (8-hr TWA reference period)	10	mg/m ³		
	List of approved workplace exposure limits (WELs) / EH40				
	Aluminium metal				
	respirable dust				
	WEL long-term (8-hr TWA reference period)	4	mg/m ³		

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

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	ethyl-acetate			141-78-6 205-500-4	
	dermal	Long term (chronic)	systemic	63	mg/kg/day
	inhalative	Long term (chronic)	systemic	734	mg/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
2	xylene			1330-20-7 215-535-7	
	dermal	Long term (chronic)	systemic	212	mg/kg/day
	inhalative	Long term (chronic)	systemic	221	mg/m ³
	inhalative	Short term (acut)	systemic	442	mg/m ³
	inhalative	Long term (chronic)	local	221	mg/m ³
	inhalative	Short term (acut)	local	442	mg/m ³
3	aluminium powder (stabilised)			7429-90-5 231-072-3	
	inhalative	Long term (chronic)	systemic	3.72	mg/m ³
	inhalative	Long term (chronic)	local	3.72	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	ethyl-acetate			141-78-6 205-500-4	
	oral	Long term (chronic)	systemic	4.5	mg/kg/day
	dermal	Long term (chronic)	systemic	37	mg/kg/day
	inhalative	Long term (chronic)	systemic	367	mg/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
2	xylene			1330-20-7 215-535-7	
	oral	Long term (chronic)	systemic	12.5	mg/kg/day
	dermal	Long term (chronic)	systemic	125	mg/kg/day
	inhalative	Long term (chronic)	systemic	65.3	mg/m ³
	inhalative	Short term (acut)	systemic	260	mg/m ³
	inhalative	Long term (chronic)	local	65.3	mg/m ³
	inhalative	Short term (acut)	local	260	mg/m ³
3	aluminium powder (stabilised)			7429-90-5 231-072-3	
	oral	Long term (chronic)	systemic	7.9	mg/kg/day

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	ethyl-acetate		141-78-6 205-500-4	
	water	fresh water	0.24	mg/L
	water	marine water	0.024	mg/L
	water	fresh water sediment	1.15	mg/kg dry weight
	water	marine water sediment	0.115	mg/kg dry weight
	soil	-	0.148	mg/kg dry weight

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	sewage treatment plant	-	650	mg/L
	secondary poisoning	-	0.2	g/kg
	with reference to: food			
2	zinc powder - zinc dust (stabilized)		7440-66-6 231-175-3	
	water	fresh water	14.4	µg/L
	water	marine water	7.2	µg/L
	water	fresh water sediment	146.9	mg/kg dry weight
	water	marine water sediment	162.2	mg/kg dry weight
	soil	-	83.1	mg/kg dry weight
	sewage treatment plant	-	100	µg/L
3	xylene		1330-20-7 215-535-7	
	water	fresh water	0.044	mg/L
	water	marine water	0.004	mg/L
	water	fresh water sediment	2.52	mg/kg
	water	marine water sediment	0.252	mg/kg
	soil	-	0.852	mg/kg
	sewage treatment plant	-	1.6	mg/L
4	aluminium powder (stabilised)		7429-90-5 231-072-3	
	water	fresh water	74.9	µg/L
	sewage treatment plant	-	20	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.

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

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No data available				
Decomposition temperature				
No data available				
Flash point				
No data available				
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		
Relative vapour density				
No data available				
Relative density				
No data available				
Density				
Value		1.12 g/ml		
Reference temperature		20 °C		
Reference substance		varnish		
Solubility				
No data available				
Partition coefficient n-octanol/water (log value)				
No	Substance name	CAS no.	EC no.	
1	ethyl-acetate	141-78-6	205-500-4	
log Pow		0.68		
Reference temperature		25 °C		
Source		ECHA		
2	propane	74-98-6	200-827-9	
log Pow		appr. 1.8		
Method		QSAR		
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.

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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	ethyl-acetate	141-78-6	205-500-4
LD50	>	5600	mg/kg bodyweight
Species	rat		
Source	ECHA		
2	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
3	n-butyl acetate	123-86-4	204-658-1
LD50		10760	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		
4	xylene	1330-20-7	215-535-7
LD50	>	4000	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		

Acute dermal toxicity (result of the ATE calculation for the mixture)	
Product Name	
einza Lackspray 96-530 Zinkspray	
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).

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

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
Product Name	
einza Lackspray 96-530 Zinkspray	
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	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
LC50		5.41	mg/l
Duration of exposure		4	h
State of aggregation	Dust		
Species	rat		
Method	OECD 403		
Source	ECHA		
2	n-butyl acetate	123-86-4	204-658-1
LC50	>=	21	mg/l
Duration of exposure		4	h

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State of aggregation		Vapour	
Species		rat	
Method		OECD 403	
Source		ECHA	
3	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.		
4	aluminium powder (stabilised)	7429-90-5	231-072-3
LC50	>	0.88	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
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	ethyl-acetate	141-78-6	205-500-4
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	low-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
Species	rabbit		
Source	ECHA		
Evaluation	non-irritant		
3	xylene	1330-20-7	215-535-7
Duration of exposure		24	h
Species	rabbit		
Source	ECHA		
Evaluation	irritant		
Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	low-irritant		
2	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
Species	rabbit		
Method	EU B.5		
Source	ECHA		
Evaluation	non-irritant		
3	xylene	1330-20-7	215-535-7
Species	rabbit		
Source	ECHA		
Evaluation	low-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
2	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
Route of exposure	Skin		
Method	OECD 429		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.

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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.		

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	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
Route of exposure	oral		
Type of examination	2 generation study		
Species	rat		
Method	OECD 416		
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	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 data available			

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

STOT - repeated exposure			
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	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
Route of exposure	inhalational		
Species	rat		
Method	OECD 412		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure	dermal		
Species	rat		
Method	OECD 411		
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		

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LOAEC	12000	ppm
Species	rat	
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

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**Other information**

No data available.

SECTION 12: Ecological information**12.1 Toxicity**

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
LC50		220	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Source	ECHA		
2	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
LC50		0.169	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 202		
Source	ECHA		
3	n-butyl acetate	123-86-4	204-658-1
LC50		18	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	xylene	1330-20-7	215-535-7
LC50		2.6	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
NOEC		0.056	mg/l
Duration of exposure		116	day(s)
Species	Salmo trutta		
Method	OECD 210		
Source	ECHA		
Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
EC50		3090	mg/l
Duration of exposure		24	h
Species	Daphnia magna		
Source	ECHA		
2	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
EC50		360	µg/l
Duration of exposure		48	h
Species	Ceriodaphnia dubia		
Method	US EPA/600/4-85/013		
Source	ECHA		

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3	n-butyl acetate	123-86-4	204-658-1
EC50		44	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
NOEC		2.4	mg/l
Species	Daphnia magna		
Method	OECD 211		
2	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
NOEC		91	µg/l
Duration of exposure		21	day(s)
Species	Daphnia longispina		
Source	ECHA		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
EC50		350	µg/l
Duration of exposure		72	h
Species	Planothidium lanceolatum		
Method	OECD 201		
Source	ECHA		
2	n-butyl acetate	123-86-4	204-658-1
EC50		647.7	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Source	ECHA		

Toxicity to algae (chronic)			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
NOEC		> 100	mg/l
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3
EC50		5.2	mg/l
Duration of exposure		3	h
Species	activated sludge		
Method	OECD 209		
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	ethyl-acetate	141-78-6	205-500-4
Type	COD		
Value		1.69	g O2/g
Source	ECHA		
Evaluation	readily biodegradable		
3	propane	74-98-6	200-827-9
Type	aerobic biodegradation		
Value		50	%
Duration		3	d
Method	QSAR		
Source	ECHA		
Evaluation	readily biodegradable		

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4	xylene	1330-20-7	215-535-7
Type	aerobic biodegradation		
Value		87.8	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	xylene	1330-20-7	215-535-7
BCF		7.4	- 18.5
Species	Oncorhynchus mykiss		
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
log Pow		0.68	
Reference temperature		25	°C
Source	ECHA		
2	propane	74-98-6	200-827-9
log Pow		appr. 1.8	
Method	QSAR		
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 Lackspray 96-530 Zinkspray	
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

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14.2 UN proper shipping name

ADR/RID/ADN	AEROSOLS
IMDG	AEROSOLS
Technical name	Zinc powder
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

ADR/RID/ADN	Symbol "fish and tree"
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
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	aluminium powder (stabilised)	7429-90-5	231-072-3	75
2	ethyl-acetate	141-78-6	205-500-4	75
3	xylene	1330-20-7	215-535-7	75
4	zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3	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
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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 content	62.5	%
VOC-value	625	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.

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

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

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

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

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

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

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
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.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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

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.
T	This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.
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 671268