

Trade name: einzA mix Zinkofan Eisenglimmer, Basis EG

Product no.: 0071358

Current version : 5.0.0, issued: 03.01.2024

Replaced version: 4.1.0, issued: 14.03.2023

Region: GB

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

1.1 Product identifier

Trade name

einzA mix Zinkofan Eisenglimmer, Basis EG

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

Relevant identified uses of the substance or mixture
decorative paints/finishes

Uses advised against
No data available.

1.3 Details of the supplier of the safety data sheet

Address

einzA Farben GmbH & Co KG
Junkersstraße 13
30179 Hannover

Telephone no. +49 (0)511 67490-0
Fax no. +49 (0)511 67490-20
e-mail info@einza.com

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):
+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Aquatic Chronic 2; H411
Flam. Liq. 3; H226
Skin Sens. 1; H317
STOT SE 3; H335
STOT SE 3; H336

Classification information

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

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

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

2.2 Label elements

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

Hazard pictograms



GHS02



GHS07



GHS09

Signal word

Warning

Hazardous component(s) to be indicated on label:

Hydrocarbons, C9, aromatics

2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate

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Hazard statement(s)

H226 Flammable liquid and vapour.
 H317 May cause an allergic skin reaction.
 H335 May cause respiratory 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.
 EUH205 Contains epoxy constituents. 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.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/eye protection.
 P370+P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
 P391 Collect spillage.
 P405 Store locked up.
 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	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	Hydrocarbons, C9, aromatics		pls. refer to footnote (2)
	64742-95-6 918-668-5 649-356-00-4 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H335 STOT SE 3; H336 Aquatic Chronic 2; H411 Asp. Tox. 1; H304 EUH066	>= 10.00 - < 25.00 wt%
2	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	< 5.00 wt%
3	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%

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4	n-butyl acetate			
	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	EUH066 Flam. Liq. 3; H226 STOT SE 3; H336	< 5.00	wt%
5	trizinc bis(orthophosphate)			
	7779-90-0 231-944-3 030-011-00-6 01-2119485044-40	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 2.50	wt%
6	aluminium powder (stabilised)			
	7429-90-5 231-072-3 013-002-00-1 01-2119529243-45	Flam. Sol. 1; H228	< 2.50	wt%
7	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)			
	25068-38-6 500-033-5 603-074-00-8 01-2119456619-26	Aquatic Chronic 2; H411 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317	>= 0.10 - < 1.00	wt%
8	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate			
	57583-35-4 260-829-0 050-028-00-2 01-2119492591-32	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Sens. 1A; H317 Repr. 2; H361d STOT RE 1; H372 Aquatic Chronic 3; H412	< 0.50	wt%
9	Reaction Produkt: Bisphenol-F-(epichlorhydrin) epoxy resin			
	28064-14-4 - - -	Aquatic Chronic 2; H411 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 0.50	wt%

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

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	P	-	-	-
2	-	STOT RE 2; H373: C >= 10%	-	-
6	T	-	-	-
7	-	Eye Irrit. 2; H319: C >= 5% Skin Irrit. 2; H315: 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)".

No	Route, target organ, concrete effect
8	H372 -; nervous system; -

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
8	1150 mg/kg bodyweight		

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

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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. Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

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

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Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Avoid the inhalation of dust, particulates and spray mist arising from the application of this mixture. Dry sanding, flame cutting and/or welding of the dry paint film may give rise to dust and/or hazardous fumes. Wet [sanding]/[flattening] should be used wherever possible. Avoid inhalation of dust from sanding. For personal protection see section 8.

General protective and hygiene measures

Avoid skin and eye contact. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Advice on protection against fire and explosion

Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Comply with legal health and safety regulations; Prevent unauthorised access. Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight. Keep away from sources of ignition. No smoking.

Requirements for storage rooms and vessels

Always keep in containers of same material as the original one. Never use pressure to empty: container is not a pressure vessel. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed. Observe label precautions.

Incompatible products

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	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	
2	n-butyl acetate	123-86-4	204-658-1
List of approved workplace exposure limits (WELs) / EH40			
Butyl acetate			
	WEL short-term (15 min reference period)	966	mg/m ³ 200 ppm
	WEL long-term (8-hr TWA reference period)	724	mg/m ³ 150 ppm
EU 2019/1831			
n-Butyl acetate			
	WEL short-term (15 min reference period)	723	mg/m ³ 150 ppm
	WEL long-term (8-hr TWA reference period)	241	mg/m ³ 50 ppm
3	aluminium powder (stabilised)	7429-90-5	231-072-3
List of approved workplace exposure limits (WELs) / EH40			
Aluminium metal			
	total inhalable dust		

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	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
4	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-35-4	260-829-0
List of approved workplace exposure limits (WELs) / EH40			
Tin compounds, organic, except Cyhexatin (ISO), (as Sn)			
	WEL short-term (15 min reference period)	0.2	mg/m ³
	WEL long-term (8-hr TWA reference period)	0.1	mg/m ³
	Comments	Sk	

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	Hydrocarbons, C9, aromatics			64742-95-6 918-668-5
	dermal	Long term (chronic)	systemic	12.5 mg/kg/day
	inhalative	Long term (chronic)	systemic	151 mg/m ³
2	Reaction mass of xylene and ethylbenzene			- 905-588-0
	dermal	Long term (chronic)	systemic	212.00 mg/kg/day
	inhalative	Short term (acut)	systemic	442.00 mg/m ³
	inhalative	Short term (acut)	local	442.00 mg/m ³
	inhalative	Long term (chronic)	systemic	221.00 mg/m ³
	inhalative	Long term (chronic)	local	221.00 mg/m ³
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 (acut)	local	550 mg/m ³
4	n-butyl acetate			123-86-4 204-658-1
	dermal	Long term (chronic)	systemic	11 mg/kg/day
	dermal	Short term (acut)	systemic	11 mg/kg/day
	inhalative	Long term (chronic)	systemic	300 mg/m ³
	inhalative	Short term (acut)	systemic	600 mg/m ³
	inhalative	Long term (chronic)	local	300 mg/m ³
	inhalative	Short term (acut)	local	600 mg/m ³
5	aluminium powder (stabilised)			7429-90-5 231-072-3
	inhalative	Long term (chronic)	local	3.72 mg/m ³
6	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate			57583-35-4 260-829-0
	dermal	Long term (chronic)	systemic	0.50 mg/kg/day
	inhalative	Long term (chronic)	systemic	0.01 mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	Hydrocarbons, C9, aromatics			64742-95-6 918-668-5
	oral	Long term (chronic)	systemic	7.5 mg/kg/day
	dermal	Long term (chronic)	systemic	7.5 mg/kg/day
	inhalative	Long term (chronic)	systemic	32 mg/m ³
2	Reaction mass of xylene and ethylbenzene			- 905-588-0
	oral	Long term (chronic)	systemic	12.50 mg/kg/day

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	dermal	Long term (chronic)	systemic	125.00	mg/kg/day
	inhalative	Short term (acut)	systemic	260.00	mg/m ³
	inhalative	Long term (chronic)	systemic	65.30	mg/m ³
	inhalative	Short term (acut)	local	260.00	mg/m ³
	inhalative	Long term (chronic)	local	65.30	mg/m ³
3	2-methoxy-1-methylethyl acetate			108-65-6	203-603-9
	oral	Long term (chronic)	systemic	36	mg/kg/day
	oral	Short term (acut)	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	n-butyl acetate			123-86-4	204-658-1
	oral	Long term (chronic)	systemic	2	mg/kg/day
	oral	Short term (acut)	systemic	2	mg/kg/day
	dermal	Long term (chronic)	systemic	6	mg/kg/day
	dermal	Short term (acut)	systemic	6	mg/kg/day
	inhalative	Long term (chronic)	systemic	35.7	mg/m ³
	inhalative	Short term (acut)	systemic	300	mg/m ³
	inhalative	Long term (chronic)	local	35.7	mg/m ³
	inhalative	Short term (acut)	local	300	mg/m ³
5	aluminium powder (stabilised)			7429-90-5	231-072-3
	oral	Long term (chronic)	systemic	3.95	mg/kg/day
6	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate			57583-35-4	260-829-0
	oral	Long term (chronic)	systemic	0.25	µg/kg/day
	oral	Short term (acut)	systemic	1.50	µg/kg/day

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	Reaction mass of xylene and ethylbenzene		- 905-588-0
	water	fresh water	0.327 mg/L
	water	marine water	0.327 mg/L
	water	fresh water sediment	12.46 mg/kg
	water	marine water sediment	12.46 mg/kg
	soil	-	2.31 mg/kg
	sewage treatment plant	-	6.58 mg/L
2	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
3	n-butyl acetate		123-86-4 204-658-1
	water	fresh water	0.18 mg/L
	water	marine water	0.018 mg/L
	water	Aqua intermittent	0.36 mg/L
	water	fresh water sediment	0.981 mg/kg dry weight
	water	marine water sediment	0.0981 mg/kg dry weight

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	soil	-	0.0903	mg/kg
	sewage treatment plant	-	35.6	mg/L
4	trizinc bis(orthophosphate)		7779-90-0 231-944-3	
	water	fresh water	20.6	µg/L
	water	marine water	6.1	µg/L
	water	fresh water sediment	117.8	mg/kg dry weight
	water	marine water sediment	56.5	mg/kg dry weight
	water	fresh water	85	µg/L
	water	marine water	42.5	µg/L
	water	fresh water sediment	867.4	mg/kg dry weight
	water	marine water sediment	957.7	mg/kg dry weight
	soil	-	35.6	mg/kg
	sewage treatment plant	-	100	µg/L
5	aluminium powder (stabilised)		7429-90-5 231-072-3	
	water	fresh water	74.9	µg/L
	sewage treatment plant	-	20	mg/L
6	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate		57583-35-4 260-829-0	
	water	fresh water	0.00914	mg/L
	water	marine water	0.000914	mg/L
	water	Aqua intermittent	0.32	mg/L
	water	fresh water sediment	140.00	mg/kg
	with reference to: dry weight			
	water	marine water sediment	14.00	mg/kg
	with reference to: dry weight			
	soil	-	28.00	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	100.00	mg/L
	with reference to: dry weight			
	secondary poisoning	-	0.138	mg/kg
	with reference to: dry weight			

8.2 Exposure controls

Appropriate engineering controls

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

Personal protective equipment

Respiratory protection

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

Eye / face protection

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

Hand protection

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

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Appropriate Material	In case of short-term contact / splash protection: nitrile rubber
Material thickness	> 0.4 mm
Breakthrough time	> 120 min
Appropriate Material	In case of prolonged exposure: nitrile rubber
Material thickness	> 0.4 mm
Breakthrough time	> 480 min

Other

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

Environmental exposure controls

Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation	
liquid	
Form	
liquid	
Colour	
according to product name	
Odour	
like solvents	
pH value	
No data available	
Boiling point / boiling range	
Value	> 120 °C
Reference substance	solvent mixture
Melting point/freezing point	
No data available	
Decomposition temperature	
No data available	
Flash point	
Value	46 - 48 °C
Method	closed cup
Ignition temperature	
Value	> 200 °C
Reference substance	solvent mixture
Oxidising properties	
Not applicable	
Flammability	
Not applicable	
Lower explosion limit	
Value	> 0.6 % vol
Reference substance	solvent mixture
Upper explosion limit	
Value	< 7.5 % vol
Reference substance	solvent mixture
Vapour pressure	
Value	< 100 hPa
Reference temperature	50 °C
Reference substance	solvent mixture

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Relative vapour density	
No data available	

Relative density	
No data available	

Density			
Value	appr.	2.00	g/cm ³
Reference temperature		20	°C
Method	DIN 51757		

Solubility in water	
Comments	immiscible

Solubility	
No data available	

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
log Pow		1.2	
Reference temperature		20 °C	
Method		OECD 117	
Source		ECHA	
2	n-butyl acetate	123-86-4	204-658-1
log Pow		2.3	
Reference temperature		25 °C	
Method		OECD 117	
Source		ECHA	
3	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-35-4	260-829-0
log Pow		8.5	
Method		OECD 117	
Source		ECHA	

Kinematic viscosity			
Value	9000 - 10000		mPa*s
Reference temperature	20		°C
Method	DIN 53019		

Solvent separation test			
Value	<	3	%
Reference temperature		20	°C

Particle characteristics	
No data available	

9.2 Other information

Other information	
No data available.	

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage and handling conditions (See section 7).

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

Trade name: einza mix Zinkofan Eisenglimmer, Basis EG

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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, C9, aromatics	64742-95-6	918-668-5
LD50	>	3492	mg/kg bodyweight
Species	rat		
Source	ECHA		
2	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
LD50	>	5155	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	trizinc bis(orthophosphate)	7779-90-0	231-944-3
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
5	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-35-4	260-829-0
LD50	>	1150	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Acute dermal toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	einza mix Zinkofan Eisenglimmer, Basis EG
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	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
LD50	>	3160	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
2	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		
3	n-butyl acetate	123-86-4	204-658-1
LD50	>	14112	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

Trade name: einza mix Zinkofan Eisenglimmer, Basis EG

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Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	einza mix Zinkofan Eisenglimmer, Basis EG
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	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
LC50	>	6.193	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	trizinc bis(orthophosphate)	7779-90-0	231-944-3
LC50	>	5.41	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Method	OECD 403		
Source	ECHA		
3	aluminium powder (stabilised)	7429-90-5	231-072-3
LC50		0.888	mg/l
Duration of exposure		4	h
State of aggregation	Dust		
Species	rat		
Source	ECHA		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	low-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
3	n-butyl acetate	123-86-4	204-658-1
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
4	trizinc bis(orthophosphate)	7779-90-0	231-944-3
Species	rabbit		
Method	OECD 404		
Source	ECHA / Read across		
Evaluation	non-irritant		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
Species	rabbit		
Method	OECD 405		

Trade name: einza mix Zinkofan Eisenglimmer, Basis EG

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Source Evaluation	ECHA non-irritant		
2	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
3	n-butyl acetate	123-86-4	204-658-1
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
4	trizinc bis(orthophosphate)	7779-90-0	231-944-3
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
5	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-35-4	260-829-0
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
Route of exposure		Skin	
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
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		
3	trizinc bis(orthophosphate)	7779-90-0	231-944-3
Route of exposure		Skin	
Species	guinea pig		
Source	ECHA / Read across		
Evaluation	non-sensitizing		
4	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-35-4	260-829-0
Route of exposure		Skin	
Species	guinea pig		
Source	ECHA		
Evaluation	sensitizing		

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
Source Evaluation/classification		ECHA Based on available data, the classification criteria are not met.	
2	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.		
3	n-butyl acetate	123-86-4	204-658-1
Source	ECHA		

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Evaluation/classification	Based on available data, the classification criteria are not met.		
4	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-35-4	260-829-0
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	n-butyl acetate	123-86-4	204-658-1
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity
No data available

STOT - single exposure
No data available

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	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.		
2	n-butyl acetate	123-86-4	204-658-1
Route of exposure	inhalational		
NOAEC		500	ppm
Duration of exposure		90	day(s)
Species	rat		
Method	EPA OTS 798.2450		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-35-4	260-829-0
Route of exposure	oral		
Species	rat		
Method	OECD 408		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		

Aspiration hazard
No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

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No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
LL50		9.2	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
2	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		
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	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-35-4	260-829-0
LC50		> 1000	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.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
EL50		3.2	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
2	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		
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.		
4	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-35-4	260-829-0
EC50		32	mg/l
Duration of exposure		48	h
Species	Daphnia magna		

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Method	OECD 202
Source	ECHA

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	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		
2	n-butyl acetate	123-86-4	204-658-1
NOEC		23	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
with reference to	CAS 110-19-0		
Method	OECD 211		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-35-4	260-829-0
NOEC		0.457	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	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
EL50		2.9	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
2	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		
3	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-35-4	260-829-0
EC50		270	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
EC50	>	99	mg/l
Duration of exposure		10	min
Species	activated sludge		
Method	OECD 209		
Source	ECHA		
2	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
EC10	>	1000	mg/l
Duration of exposure		30	min

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Species	activated sludge		
Method	OECD 209		
Source	ECHA		
3	n-butyl acetate	123-86-4	204-658-1
IC50		356	mg/l
Duration of exposure		40	h
Species	Tetrahymena pyriformis (Protozoa)		
Source	ECHA		

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9, aromatics	64742-95-6	918-668-5
Type	BSB		
Value		78	%
Duration		28	d
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
2	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		
3	n-butyl acetate	123-86-4	204-658-1
Type	aerobic biodegradation		
Value		83	%
Duration		28	day(s)
Method	OECD 301 D		
Source	ECHA		
Evaluation	readily biodegradable		
4	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-35-4	260-829-0
Type	aerobic biodegradation		
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		

Abiotic Degradation			
No	Substance name	CAS no.	EC no.
1	n-butyl acetate	123-86-4	204-658-1
Type	Photolysis		
Half-life		3.3	day(s)
Reference temperature		25	°C
Source	ECHA		

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	n-butyl acetate	123-86-4	204-658-1
BCF		15.3	
Method	Calculation model used (Q)SAR		
Source	ECHA		
2	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-35-4	260-829-0
BCF		<	0.83
Method	QSAR		
Source	ECHA		

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Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9
log Pow		1.2	
Reference temperature		20	°C
Method		OECD 117	
Source		ECHA	
2	n-butyl acetate	123-86-4	204-658-1
log Pow		2.3	
Reference temperature		25	°C
Method		OECD 117	
Source		ECHA	
3	2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-35-4	260-829-0
log Pow		8.5	
Method		OECD 117	
Source		ECHA	

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
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.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer. Empty containers must be scrapped or reconditioned.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

Class	3
Classification code	F1
Packing group	III
Hazard identification no.	30
UN number	UN1263
Proper shipping name	PAINT
Tunnel restriction code	D/E
Label	3

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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, P5c
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	33.63 %
Directive 2004/42/CE on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products	
relevant VOC limit value as referred to in Annex II of Directive 2004/42/CE , Cat. : i, type: lb = 500 g/l	
Max. VOC content (limit value) of the product in its ready for use condition = < 500 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)

H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
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)

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.
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.

Creation of the safety data sheet

UMCO GmbH

Trade name: einzA mix Zinkofan Eisenglimmer, Basis EG

Product no.: 0071358

Current version : 5.0.0, issued: 03.01.2024

Replaced version: 4.1.0, issued: 14.03.2023

Region: GB

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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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