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

1.1 Product identifier

Trade name

einzA Zinkofan, RAL 8011 nußbraun

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. 1A; 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

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.
EUH208	Contains reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700), Reaction Produkt: Bisphenol-F-(epichlorhydrin) epoxy resin. 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**			
	64742-95-6 918-668-5 - 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H335 STOT SE 3; H336 Aquatic Chronic 2; H411 Asp. Tox. 1; H304 EUH066	>= 25.00 - < 50.00	%-b.w.
2	**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	%-b.w.
3	**1-methoxy-2-propanol**			
	107-98-2 203-539-1 603-064-00-3 01-2119457435-35	Flam. Liq. 3; H226 STOT SE 3; H336	< 5.00	%-b.w.
4	**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	%-b.w.
5	**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	%-b.w.
6	**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	%-b.w.
7	**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	%-b.w.

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

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
5	-	Eye Irrit. 2; H319: C >= 5% Skin Irrit. 2; H315: C >= 5%	-	-

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

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. 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
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]/[flatting] 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/m³	100	ppm
	WEL long-term (8-hr TWA reference period)	274	mg/m³	50	ppm
	Comments	Sk			
	2000/39/EC				
	2-Methoxy-1-methylethylacetate				
	WEL short-term (15 min reference period)	550	mg/m³	100	ppm
	WEL long-term (8-hr TWA reference period)	275	mg/m³	50	ppm
	Skin resorption / sensibilisation	Skin			
2	**1-methoxy-2-propanol**	**107-98-2**		**203-539-1**	
	2000/39/EC				
	1-Methoxypropanol-2				
	WEL short-term (15 min reference period)	568	mg/m³	150	ppm
	WEL long-term (8-hr TWA reference period)	375	mg/m³	100	ppm
	Skin resorption / sensibilisation	Skin			
	List of approved workplace exposure limits (WELs) / EH40				
	1-Methoxypropan-2-ol				
	WEL short-term (15 min reference period)	560	mg/m³	150	ppm
	WEL long-term (8-hr TWA reference period)	375	mg/m³	100	ppm
	Comments	Sk			
3	**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),				
	Sn				
	WEL short-term (15 min reference period)	0.2	mg/m³		
	WEL long-term (8-hr TWA reference period)	0.1	mg/m³		

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	25	mg/kg/day
	inhalative	Long term (chronic)	systemic	150	mg/m³
2	**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/m³

	inhalative	Short term (acut)	local	550	mg/m³
3	**1-methoxy-2-propanol**			**107-98-2 203-539-1**	
	dermal	Long term (chronic)	systemic	50.6	mg/kg/day
	inhalative	Long term (chronic)	systemic	369	mg/m³
	inhalative	Short term (acut)	local	553.5	mg/m³
4	**trizinc bis(orthophosphate)**			**7779-90-0 231-944-3**	
	dermal	Long term (chronic)	systemic	83	mg/kg/day
	inhalative	Long term (chronic)	systemic	5	mg/m³
5	**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/m³

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	11	mg/kg/day
	dermal	Long term (chronic)	systemic	11	mg/kg/day
	inhalative	Long term (chronic)	systemic	32	mg/m³
2	**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/m³
	inhalative	Long term (chronic)	local	33	mg/m³
3	**1-methoxy-2-propanol**			**107-98-2 203-539-1**	
	oral	Long term (chronic)	systemic	3.3	mg/kg/day
	dermal	Long term (chronic)	systemic	18.1	mg/kg/day
	inhalative	Long term (chronic)	systemic	43.9	mg/m³
4	**trizinc bis(orthophosphate)**			**7779-90-0 231-944-3**	
	oral	Long term (chronic)	systemic	0.83	mg/kg/day
	dermal	Long term (chronic)	systemic	83	mg/kg/day
	inhalative	Long term (chronic)	systemic	2.5	mg/m³
5	**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	**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
2	**1-methoxy-2-propanol**		**107-98-2 203-539-1**	

	water	fresh water	10	mg/L
	water	marine water	1	mg/L
	water	Aqua intermittent	100	mg/L
	water	fresh water sediment	52.3	mg/kg
	with reference to: dry weight			
	water	marine water sediment	5.2	mg/kg
	with reference to: dry weight			
	soil	-	5.49	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	100	mg/L
3	**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
	soil	-	35.6	mg/kg
	sewage treatment plant	-	100	µg/L
4	**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 googles 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.

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

Form/Colour
liquid
according to product name

Odour
of solvents

Odour threshold
No data available

pH value
No data available

Boiling point / boiling range			
Value	>	120	°C
Reference substance	solvent mixture		

Melting point / melting range
No data available

Decomposition point / decomposition range
No data available

Flash point				
Value	46	-	48	°C
Method	closed cup			

Ignition temperature			
Value	>	200	°C
Reference substance	solvent mixture		

Auto-ignition temperature
No data available

Oxidising properties
Not applicable

Explosive properties
No data available

Flammability (solid, gas)
Not applicable

Lower flammability or explosive limits			
Value	>	0.6	% vol
Reference substance	solvent mixture		

Upper flammability or explosive limits			
Value	<	7.5	% vol
Reference substance	solvent mixture		

Vapour pressure

Value	<		100	hPa
Reference temperature			50	°C
Reference substance	solvent mixture			

Vapour density
No data available

Evaporation rate
No data available

Relative density
No data available

Density				
Value	1.20	-	1.32	g/cm³
Reference temperature			20	°C
Method	DIN 51757			

Solubility in water	
Comments	immiscible

Solubility(ies)
No data available

Partition coefficient: n-octanol/water			
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	**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		

Viscosity				
Value	8000	-	9500	Pa*s
Reference temperature			20	°C
Method	DIN 53019			

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

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

None if stored, handled and transported properly. In case of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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		>	5000		mg/kg bodyweight
Species		rat			
Source		ECHA			
3	**1-methoxy-2-propanol**		**107-98-2**		**203-539-1**
LD50			4016		mg/kg bodyweight
Species		rat			
Method		EC 440/2008, B.1			
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					
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	**1-methoxy-2-propanol**		**107-98-2**		**203-539-1**
LD50		>	2000		mg/kg bodyweight
Species		rat			
Method		440/2008/EC B.3.			
Source		ECHA			

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		

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	**1-methoxy-2-propanol**	**107-98-2**	**203-539-1**
Species	rabbit		
Method	EC 440/2008, B.4		
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		
Source	ECHA		
Evaluation	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	**1-methoxy-2-propanol**	**107-98-2**	**203-539-1**
Species	rabbit		
Method	2004/73/EEC, B.5		
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	**1-methoxy-2-propanol**	**107-98-2**	**203-539-1**
Route of exposure	Skin		
Species	guinea pig		
Method	440/2008/EC B.6		
Source	ECHA		
Evaluation	non-sensitizing		
4	**trizinc bis(orthophosphate)**	**7779-90-0**	**231-944-3**
Route of exposure	Skin		
Species	guinea pig		
Source	ECHA / Read across		
Evaluation	non-sensitizing		
5	**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	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	**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.		

Carcinogenicity
No data available

STOT - single exposure
No data available

STOT - repeated exposure			
No	**Substance name**	**CAS no.**	**EC no.**
1	**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.

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	**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-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			
Method		OECD 202			
Source		ECHA			

Toxicity to Daphnia (chronic)			
No	**Substance name**	**CAS no.**	**EC no.**

1	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			72		h
Species	Pseudokirchneriella 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				

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			90		%
Duration			28		day(s)
Method	OECD 301 F				
Source	ECHA				
Evaluation	readily biodegradable				
3	**1-methoxy-2-propanol**	**107-98-2**		**203-539-1**	
Type	aerobic biodegradation				
Value			96		%

Duration		28	day(s)	
Method	OECD 301 E			
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			

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**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			

Partition coefficient: n-octanol/water				
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	**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 Other adverse effects

No data available.

12.7 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

Residuals 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
Environmentally hazardous substance mark	Symbol "fish and tree"

14.2 Transport IMDG

Class	3
Packing group	III
UN number	UN1263
Proper shipping name	PAINT
Technical name	Hydrocarbons, C9, aromatics trizinc bis(orthophosphate)
EmS	F-E+S-E
Label	3
Marine pollutant mark	Symbol "fish and tree"

14.3 Transport ICAO-TI / IATA

Class	3
Packing group	III
UN number	UN1263
Proper shipping name	Paint
Label	3

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

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 Transport in bulk according to Annex II of Marpol and the IBC Code

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, PREPARATIONS AND ARTICLES
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorisation as listed on Annex XVII of the REACH regulation (EC) 1907/2006.

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	37.15 %

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 chapter.
EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU
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)

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.
H361d	Suspected of damaging the unborn child.
H372	Causes 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.

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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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