

Trade name: einzA Antik-Metall, schuppenschwarz

Product no.: 8690030

Current version : 4.0.2, issued: 19.05.2020

Replaced version: 4.0.1, issued: 26.07.2019

Region: GB

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

1.1 Product identifier

Trade name

einzA Antik-Metall, schuppenschwarz

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)

Flam. Liq. 3; H226

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

Signal word

Warning

Hazard statement(s)

H226 Flammable liquid and vapour.

Hazard statements (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statement(s)

P102 Keep out of reach of children.

Trade name: einzA Antik-Metall, schuppenschwarz

Product no.: 8690030

Current version : 4.0.2, issued: 19.05.2020

Replaced version: 4.0.1, issued: 26.07.2019

Region: GB

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P370+P378	In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
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, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics		
	- 918-481-9 - 01-2119457273-39	Asp. Tox. 1; H304 EUH066	>= 10.00 - < 25.00 %-b.w.
2	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		
	64742-48-9 919-857-5 - 01-2119463258-33	Asp. Tox. 1; H304 EUH066 Flam. Liq. 3; H226 STOT SE 3; H336	>= 5.00 - < 10.00 %-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	< 2.50 %-b.w.

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

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

Trade name: einzA Antik-Metall, schuppenschwarz

Product no.: 8690030

Current version : 4.0.2, issued: 19.05.2020

Replaced version: 4.0.1, issued: 26.07.2019

Region: GB

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]/[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

Trade name: einzA Antik-Metall, schuppenschwarz

Product no.: 8690030

Current version : 4.0.2, issued: 19.05.2020

Replaced version: 4.0.1, issued: 26.07.2019

Region: GB

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	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/m ³ 150 ppm
	WEL long-term (8-hr TWA reference period)	375	mg/m ³ 100 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/m ³ 150 ppm
	WEL long-term (8-hr TWA reference period)	375	mg/m ³ 100 ppm
	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-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics			64742-48-9 919-857-5
	dermal	Long term (chronic)	systemic	300 mg/kg/day
	inhalative	Long term (chronic)	systemic	1500 mg/m ³
2	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/m ³
	inhalative	Short term (acute)	local	553.5 mg/m ³

DNEL value (consumer)

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics			64742-48-9 919-857-5
	oral	Long term (chronic)	systemic	300 mg/kg/day
	dermal	Long term (chronic)	systemic	300 mg/kg/day
	inhalative	Long term (chronic)	systemic	900 mg/m ³

Trade name: einzA Antik-Metall, schuppenschwarz

Product no.: 8690030

Current version : 4.0.2, issued: 19.05.2020

Replaced version: 4.0.1, issued: 26.07.2019

Region: GB

2	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/m ³

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	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

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 workstation 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

EC safety data sheet



Trade name: einzA Antik-Metall, schuppenschwarz

Product no.: 8690030

Current version : 4.0.2, issued: 19.05.2020

Replaced version: 4.0.1, issued: 26.07.2019

Region: GB

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	35 - 38 °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	1.35 - 1.35 g/cm ³
Reference temperature	20 °C
Method	DIN 51757

Trade name: einzA Antik-Metall, schuppenschwarz

Product no.: 8690030

Current version : 4.0.2, issued: 19.05.2020

Replaced version: 4.0.1, issued: 26.07.2019

Region: GB

Solubility in water	
Comments	immiscible
Solubility(ies)	
No data available	
Partition coefficient: n-octanol/water	
No data available	
Viscosity	
Value	1350 - 1500 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-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	919-857-5
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
2	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		
Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	919-857-5
LD50	>	2000	mg/kg bodyweight

Trade name: einzA Antik-Metall, schuppenschwarz

Product no.: 8690030

Current version : 4.0.2, issued: 19.05.2020

Replaced version: 4.0.1, issued: 26.07.2019

Region: GB

Species	rabbit
Method	OECD 402
Source	ECHA
2	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 data available

Skin corrosion/irritation

No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	919-857-5

Species	rabbit
Method	OECD 404
Source	ECHA
Evaluation	non-irritant

2	1-methoxy-2-propanol 107-98-2 203-539-1
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Species	rabbit
Method	EC 440/2008, B.4
Source	ECHA
Evaluation	non-irritant

Serious eye damage/irritation

No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	919-857-5

Species	rabbit
Method	OECD 405
Source	ECHA
Evaluation	non-irritant

2	1-methoxy-2-propanol 107-98-2 203-539-1
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Species	rabbit
Method	2004/73/EEC, B.5
Source	ECHA
Evaluation	non-irritant

Respiratory or skin sensitisation

No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	919-857-5

Route of exposure	Skin
Species	guinea pig
Method	OECD 406
Source	ECHA
Evaluation	non-sensitizing

2	1-methoxy-2-propanol 107-98-2 203-539-1
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Route of exposure	Skin
Species	guinea pig
Method	440/2008/EC B.6
Source	ECHA
Evaluation	non-sensitizing

Germ cell mutagenicity

No data available

Reproduction toxicity

No data available

Carcinogenicity

No data available

Trade name: einzA Antik-Metall, schuppenschwarz

Product no.: 8690030

Current version : 4.0.2, issued: 19.05.2020

Replaced version: 4.0.1, issued: 26.07.2019

Region: GB

STOT - single exposure
No data available
STOT - repeated exposure
No data available
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-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	919-857-5
LL50	>	1000	mg/l
Duration of exposure		96	h
Species	Rainbow trout		
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-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	919-857-5
EL50	>	1000	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
with reference to	WAF (water accommodated fractions)		
Method	OECD 202		
Source	ECHA		

Toxicity to Daphnia (chronic)			
No data available			

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	919-857-5
EL50	>	1000	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
with reference to	WAF (water accommodated fractions)		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)			
No data available			

Trade name: einzA Antik-Metall, schuppenschwarz

Product no.: 8690030

Current version : 4.0.2, issued: 19.05.2020

Replaced version: 4.0.1, issued: 26.07.2019

Region: GB

Bacteria toxicity

No data available

12.2 Persistence and degradability

Biodegradability

No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	919-857-5
Method		OECD 301 F	
Source		ECHA	
Evaluation		readily biodegradable	
2	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	

12.3 Bioaccumulative potential

No data available.

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

Trade name: einzA Antik-Metall, schuppenschwarz

Product no.: 8690030

Current version : 4.0.2, issued: 19.05.2020

Replaced version: 4.0.1, issued: 26.07.2019

Region: GB

Label 3
 Comments Containers with a capacity <= 450 ltrs are not subject to ADR-regulations (refer to 2.2.3.1.5.)

14.2 Transport IMDG

Class 3
 Packing group III
 UN number UN1263
 Proper shipping name PAINT
 EmS F-E+S-E
 Label 3
 Comments Containers with a capacity <= 450 ltrs are not subjected to IMDG regulations, chapter 4.1, 5.2 and 6.1 (see IMDG-Code 2.3.2.5)

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: P5c

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

VOC content	28.15	%
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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

Trade name: einzA Antik-Metall, schuppenschwarz

Product no.: 8690030

Current version : 4.0.2, issued: 19.05.2020

Replaced version: 4.0.1, issued: 26.07.2019

Region: GB

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)

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

Department issuing safety data sheet

UMCO GmbH

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This information is based on our present knowledge and experience.

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