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

1.1 Product identifier

Trade name

einzA mix Kompaktlasur Silvershine, Basis ME

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

Information provided by / telephone
In emergencies, the country-specific emergency number can be found in the corresponding country-specific safety data sheets.

Advice on Safety Data Sheet
sdb_info@umco.de

1.4 Emergency telephone number

+49 (0)40 0511 - 674 90-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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.
This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP).

2.2 Label elements

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

Hazard pictograms

-

Signal word
-

Hazard statement(s)
-

Hazard statements (EU)
EUH210 Safety data sheet available on request.

Precautionary statement(s)
-

Labelling information
The labelling (EU hazard statements) meets the criteria of annex II of Directive (EC) Nr. 1272/2008 (CLP).

2.3 Other hazards

The product does not contain any components > 0.1% that meet the criteria for PBT and vPvB according to Regulation (EC) No. 1907/2006, Annex XIII, or that have been included in the list compiled in accordance with Article 59(1). This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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	>= 50,00 - < 70,00	wt%
2	**aluminium powder (stabilised)**			
	7429-90-5 231-072-3 013-002-00-1 01-2119529243-45	Flam. Sol. 1; H228	< 2,50	wt%

Full text of H- and EUH-phrases, if not already mentioned in section 2.2: see section 16.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	T	-	-	-

Full text for the notes: pls. see section 16 “Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)”.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

After inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

After skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Alcohol resistant foam, CO2, powders, water spray

Unsuitable extinguishing media
water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); Toxic pyrolysis products; Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Exclude sources of ignition and ventilate the area. 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

If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Do not allow to enter drains/watercourses/soil.

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
Due to the organic solvents' content of the mixture: 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. 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. 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; Storage in accordance with the Ordinance on Industrial Safety and Health. 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.

Stoarge Class according TRGS 510
10-13 Combustible and Non-combustible liquids and solids that cannot be assigned to storage class 1-8.

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	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**		**918-481-9**
	TRGS 900		
	Kohlenwasserstoffgemische, Verwendung als Lösemittel (Lösemittelkohlenwasserstoffe), additiv-frei: C9-C15 Aliphaten		
	WEL long-term (8-hr TWA reference period)	600 mg/m³	
	Ceiling Limit	2 (II)	

Biological limit values

No	Substance name		
1	**aluminium powder (stabilised)**		
	TRGS 903		
	Aluminium		
	parameter	Aluminium	
	Value	50	µg/g Kreatinin
	Comments sample material Sampling moment	DFG U C	

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no
	Route of exposure	**Exposure time**	**Effect**	**Value**
1	**aluminium powder (stabilised)**			**7429-90-5** **231-072-3**
	inhalative	Long term (chronic)	local	3,72 mg/m³

DNEL value (consumer)

No	Substance name			CAS / EC no
	Route of exposure	**Exposure time**	**Effect**	**Value**
1	**aluminium powder (stabilised)**			**7429-90-5** **231-072-3**
	oral	Long term (chronic)	systemic	3,95 mg/kg/day

PNEC values

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

1	**aluminium powder (stabilised)**		**7429-90-5** **231-072-3**	
	water	fresh water	74,9	µg/L
	sewage treatment plant	-	20	mg/L

8.2 Exposure controls

Appropriate engineering controls

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

Personal protective equipment

Respiratory protection

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. 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

State of aggregation
liquid

Form
liquid

Colour
according to product name

Odour
characteristic

pH value	
reason for missing pH	substance/mixture is non-soluble (in water)

Boiling point / boiling range			
Value	appr.	100	°C

Melting point/freezing point

No data available

Decomposition temperature
No data available

Flash point			
Value	>=	62	°C
Method	closed cup		

Ignition temperature
No data available

Oxidising properties
Not applicable

Flammability
Not applicable

Lower explosion limit
No data available

Upper explosion limit
No data available

Vapour pressure			
Value	<	100	hPa
Reference temperature		50	°C

Relative vapour density
No data available

Relative density
No data available

Density				
Value	0,84	-	0,89	g/cm³
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	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**	**-**	**918-481-9**

log Pow	3,17	-	7,22
Method	QSAR		
Source	ECHA		

Kinematic viscosity				
Value	55	-	65	sec
Method	DIN EN 2431 (4 mm)			

Solvent separation test
Not applicable

Particle characteristics
No data available

Microplastics			
This product contains microplastics.			
Value		0,56	%
Identification of polymers	3901 polymers of ethylene		

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity				
No	**Substance name**	**CAS no.**	**EC no.**	
1	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**	**-**	**918-481-9**	
LD50	>	15000	mg/kg bodyweight	
Species	rat			
Method	OECD 401			
Source	ECHA			
Evaluation/classification	Based on available data, the classification criteria are not met.			

Acute dermal toxicity
No data available

Acute inhalational toxicity				
No	**Substance name**	**CAS no.**	**EC no.**	
1	**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 data available

Serious eye damage/irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**	**-**	**918-481-9**
Type of examination	in vitro gene mutation study in bacteria		

Species	S. typhimurium TA 1535, TA 1537, TA 98 and TA 100S. typhimurium TA 1535, TA 1537, TA 98, TA 100, TA 102
Method	OECD 471
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Route of exposure	oral
Type of examination	In vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus
Species	mouse
Method	OECD 474
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Reproduction toxicity
No data available

Carcinogenicity
No data available

STOT - single exposure
No data available

STOT - repeated exposure			
No	**Substance name**	**CAS no.**	**EC no.**
1	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**	**-**	**918-481-9**

Route of exposure	oral		
NOAEL	>=	500	mg/kg bw/d
Species	rat		
Method	OECD 408		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not 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
No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)
No data available

Toxicity to fish (chronic)
No data available

Toxicity to Daphnia (acute)

No data available

Toxicity to Daphnia (chronic)
No data available

Toxicity to algae (acute)
No data available

Toxicity to algae (chronic)
No data available

Bacteria toxicity
No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)			
No	**Substance name**	**CAS no.**	**EC no.**
1	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**	**-**	**918-481-9**

log Pow	3,17 - 7,22
Method	QSAR
Source	ECHA

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment			
No	**Substance name**	**CAS no.**	**EC no.**
1	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**	**-**	**918-481-9**

PBT assessment	The substance is not PBT.
vPvB assessment	The substance is not vPvB.
Source	ECHA

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.
Allow paint/varnish to dry out completely in a well-ventilated area and dispose of in residual waste once completely soldified. Dispose of liquid or non-drying residues separately.
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 UN number or ID number
Not classified as dangerous in the meaning of transport regulations.

14.2 UN proper shipping name
Not classified as dangerous in the meaning of transport regulations.

14.3 Transport hazard class(es)
Not classified as dangerous in the meaning of transport regulations.

14.4 Packing group
Not classified as dangerous in the meaning of transport regulations.

14.5 Environmental hazards
Not classified as dangerous in the meaning of transport regulations.

14.6 Special precautions for user
Transport within the user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments
Not relevant

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation
According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES	
The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 78
The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.	
The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	

No	**Substance name**	**CAS no.**	**EC no.**	**No**
1	**2-(2-butoxyethoxy)ethanol**	**112-34-5**	**203-961-6**	**75**
2	**2-methylpentane-2,4-diol**	**107-41-5**	**203-489-0**	**75**
3	**aluminium powder (stabilised)**	**7429-90-5**	**231-072-3**	**75**

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances
This product is not subject to Part 1 or 2 of Annex I.

Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)	
VOC content	57,28 %

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. : f, type: Ib = 700 g/l Max. VOC content (limit value) of the product in its ready for use condition = < 700 g/l

National regulations

Water Hazard Class (Germany)

Class	1
Source	Classification according to AwSV (Regulation on facilities for handling substances that are hazardous to water).

Other regulations

GISCODE	BSL10	Covering agents, solvent based, free of aromatic substances

Other national regulations
Adhere to national regulations for proper handling and use of hazardous materials. Use appropriate personal protective equipment. For example, TRGS (Technical Rules for Hazardous Substances) and the DGUV (German Social Accident Insurance) rules.

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

SECTION 16: Other information

Sources of key data used to compile the data sheet:
Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.
Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.
National Threshold Limit Values of the corresponding countries as amended in each case.
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

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

EUH066	Repeated exposure may cause skin dryness or cracking.
H228	Flammable solid.
H304	May be fatal if swallowed and enters airways.

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.
This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP).

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

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
Georg-Wilhelm-Str. 187, D-21107 Hamburg
Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: umco@umco.de

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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