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

1.1 Product identifier

Trade name

einzA Dachgrundierung, farblos

UFI:
G8U0-60VY-K00E-G1S4

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 in accordance with Regulation (EC) No 1272/2008 (CLP)
Aquatic Chronic 2; H411
Flam. Liq. 3; H226
Resp. Sens. 1; H334
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

GHS08

GHS09

Signal word
Danger

Hazardous component(s) to be indicated on label:
Hydrocarbons, C9, aromatics
tosyl isocyanate
m-tolylidene diisocyanate

Hazard statement(s)

H226	Flammable liquid and vapour.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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 triphenyl phosphite. 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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
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.

UFI:
G8U0-60VY-K00E-G1S4

Supplemental label elements
'As from 24 August 2023 adequate training is required before industrial or professional use'

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, 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	>= 50,00 - < 70,00	wt%

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	>= 10,00 - < 25,00	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 - < 10,00	wt%
4	**tosyl isocyanate**			
	4083-64-1 223-810-8 615-012-00-7 01-2119980050-47	EUH014 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Irrit. 2; H315 STOT SE 3; H335	< 2,50	wt%
5	**m-tolylidene diisocyanate**			
	26471-62-5 247-722-4 615-006-00-4 01-2119454791-34	Acute Tox. 1; H330 Aquatic Chronic 3; H412 Carc. 2; H351 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335	< 0,50	wt%
6	**triphenyl phosphite**			
	101-02-0 202-908-4 015-105-00-7 01-2119511213-58	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0,50	wt%

Full text of H- and EUH-phrases, if not already mentioned in section 2.2: 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	-	-	-
5	C	Resp. Sens. 1; H334: C >= 0,1%	-	-
6	-	Skin Irrit. 2; H315: C >= 5% Eye Irrit. 2; H319: 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)”.

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
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; 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
3 Flammable liquids

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, C9, aromatics**	**64742-95-6**		**918-668-5**	
	TRGS 900				
	Kohlenwasserstoffgemische, Verwendung als Lösemittel (Lösemittelkohlenwasserstoffe), additiv-frei: C9-C15 Aromaten				
	WEL long-term (8-hr TWA reference period)	100	mg/m³		
	Ceiling Limit	2 (II)			
2	**2-methoxy-1-methylethyl acetate**	**108-65-6**		**203-603-9**	
	TRGS 900				
	2-Methoxy-1-methylethylacetat				
	WEL long-term (8-hr TWA reference period)	270	mg/m³	50	ml/m³
	Ceiling Limit Notes	1(I) Y			
	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			
3	**2-methoxy-1-methylethyl acetate**	**108-65-6**		**203-603-9**	
	TRGS 900				
	2-Methoxy-1-methylethylacetat				
	WEL long-term (8-hr TWA reference period)	270	mg/m³	50	ml/m³
	Ceiling Limit Notes	1(I) Y			
	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			
4	**m-tolylidene diisocyanate**	**26471-62-5**		**247-722-4**	
	2024/869/EC				

	Diisocyanates (measured as NCO (10))	
	WEL long-term (8-hr TWA reference period)	0,006 mg/m³ 12 ppm
	Skin resorption / sensibilisation Comments	Skin (8) Dermal and respiratory sensitisation (9) A limit value of 10 µg NCO/m3 in relation to a reference period of 8 hours and a short-term exposure limit value of 20 µg NCO/m3 shall apply until 31 December 2028.
	TRGS 900	
	Diisocyanate (gemessen als „NCO“)	
	WEL long-term (8-hr TWA reference period)	0,006 mg/m³
	Ceiling Limit Skin resorption / sensibilisation	2 Sah

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**	
	inhalative	Long term (chronic)	systemic	0,64	mg/m³
	inhalative	Short term (acut)	systemic	1286,4	mg/m³
	inhalative	Long term (chronic)	local	837,5	mg/m³
	inhalative	Short term (acut)	local	1066,67	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	**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
4	**tosyl isocyanate**			**4083-64-1 223-810-8**	
	dermal	Long term (chronic)	systemic	0,92	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	3,24	mg/m³
5	**m-tolylidene diisocyanate**			**26471-62-5 247-722-4**	
	inhalative	Long term (chronic)	systemic	0,035	mg/m³
	inhalative	Short term (acut)	systemic	0,14	mg/m³
	inhalative	Long term (chronic)	local	0,035	mg/m³
	inhalative	Short term (acut)	local	0,14	mg/m³
6	**triphenyl phosphite**			**101-02-0 202-908-4**	
	dermal	Long term (chronic)	systemic	0,3	µg/kg bw/day
	dermal	Long term (chronic)	local	11,7	µg/cm²
	dermal	Short term (acut)	local	11,7	µg/cm²
	inhalative	Long term (chronic)	systemic	1,06	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**	
	inhalative	Long term (chronic)	systemic	0,113	mg/m³
	inhalative	Short term (acut)	systemic	1,152	mg/m³
	inhalative	Long term (chronic)	local	178,57	mg/m³
	inhalative	Short term (acut)	local	640	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	**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
4	**tosyl isocyanate**			**4083-64-1** **223-810-8**	
	oral	Long term (chronic)	systemic	0,46	mg/kg bw/day
	dermal	Long term (chronic)	systemic	0,46	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	0,8	mg/m³
5	**triphenyl phosphite**			**101-02-0** **202-908-4**	
	oral	Long term (chronic)	systemic	75	µg/kg bw/day
	dermal	Long term (chronic)	systemic	150	µg/kg bw/day
	dermal	Long term (chronic)	local	11,7	µg/cm²
	dermal	Short term (acut)	local	11,7	µg/cm²
	inhalative	Long term (chronic)	systemic	0,53	mg/m³

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	**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	**tosyl isocyanate**		**4083-64-1** **223-810-8**	
	water	fresh water	0,03	mg/L
	water	fresh water sediment	0,172	mg/kg dry weight
	water	Aqua intermittent	0,3	mg/L
	water	marine water	0,003	mg/L
	water	marine water sediment	0,017	mg/kg dry weight

	soil	-	0,017	mg/kg dry weight
	sewage treatment plant	-	0,4	mg/L
4	**m-tolylidene diisocyanate**		**26471-62-5 247-722-4**	
	water	fresh water	0,013	mg/L
	water	marine water	0,001	mg/L
	soil	-	1	mg/kg dry weight
	sewage treatment plant	-	1	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
like solvents

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

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	40	-	44	°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		

Relative vapour density
No data available

Relative density
No data available

Density				
Value	0,95	-	0,95	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	**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-methoxy-1-methylethyl acetate**	**108-65-6**		**203-603-9**
log Pow			1,2	
Reference temperature			20	°C

Method	OECD 117
Source	ECHA

3	m-tolylidene diisocyanate	26471-62-5	247-722-4
log Pow		3,43	
Reference temperature		22	°C
with reference to	pH 7		
Method	OECD 117		
Source	ECHA		

Kinematic viscosity				
Value	11	-	12	sec
Reference temperature			20	°C
Method	DIN EN 2431 (4 mm)			

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
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	**2-methoxy-1-methylethyl acetate**	**108-65-6**	**203-603-9**
LD50		5155	mg/kg bodyweight
Species	rat		
Method	OECD 401		
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	**m-tolylidene diisocyanate**	**26471-62-5**	**247-722-4**
LD50		5840	mg/kg bodyweight
Species	rat		

Method	OECD 401
Source	ECHA

Acute dermal toxicity					
No	**Substance name**	**CAS no.**		**EC no.**	
1	**2-methoxy-1-methylethyl acetate**	**108-65-6**		**203-603-9**	
LD50		>	5000		mg/kg bodyweight
Species		rat			
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	**m-tolylidene diisocyanate**	**26471-62-5**		**247-722-4**	
LD50		>	9400		mg/kg bodyweight
Species		rabbit			
Method		OECD 402			
Source		ECHA			

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
Product Name	
einzA Dachgrundierung, farblos	
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	**m-tolylidene diisocyanate**	**26471-62-5**		**247-722-4**	
LC50			0,48		mg/l
Duration of exposure			4		h
State of aggregation		Vapour			
Species		rat			
Method		OECD 403			
Source		ECHA			
2	**triphenyl phosphite**	**101-02-0**		**202-908-4**	
LC50		>	6,7		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	**2-methoxy-1-methylethyl acetate**	**108-65-6**	**203-603-9**
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		non-irritant	
2	**2-methoxy-1-methylethyl acetate**	**108-65-6**	**203-603-9**
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		non-irritant	
3	**m-tolylidene diisocyanate**	**26471-62-5**	**247-722-4**
Species		rabbit	

Method	Pre-guideline, Non-GLP
Source	ECHA
Evaluation	irritant
Evaluation/classification	Based on available information, the product is classified as irritating to the skin.

4	triphenyl phosphite	101-02-0	202-908-4

Species	guinea pig
Method	EPA OTS 798.4470
Source	ECHA
Evaluation	irritant
Evaluation/classification	Based on available data, the classification criteria are met.

Serious eye damage/irritation

No	Substance name	CAS no.	EC no.
1	2-methoxy-1-methylethyl acetate	108-65-6	203-603-9

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	m-tolylidene diisocyanate	26471-62-5	247-722-4

Species	rabbit
Method	Draize method
Source	ECHA
Evaluation	Irritating to eyes

4	triphenyl phosphite	101-02-0	202-908-4

Species	rabbit
Method	OECD 405
Source	ECHA
Evaluation	Irritating to eyes
Evaluation/classification	Based on available data, the classification criteria are met.

Respiratory or skin sensitisation

No	Substance name	CAS no.	EC no.
1	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

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	m-tolylidene diisocyanate	26471-62-5	247-722-4

Route of exposure	respiratory tract
Source	1272/2008/EC, Annex VI
Evaluation	sensitizing
Evaluation/classification	The classification is according to the current version of the harmonized classification found in Annex VI of Regulation EC 1272/2008.
Route of exposure	Skin
Species	mouse
Method	OECD 429
Source	ECHA
Evaluation	sensitizing

4	triphenyl phosphite	101-02-0	202-908-4
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation	sensitizing		
Evaluation/classification	Based on available data, the classification criteria are met.		

Germ cell mutagenicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**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.		
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	**m-tolylidene diisocyanate**	**26471-62-5**	**247-722-4**
Route of exposure	inhalational		
Species	mouse		
Method	OECD 474		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	**triphenyl phosphite**	**101-02-0**	**202-908-4**
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.		

Reproduction toxicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**m-tolylidene diisocyanate**	**26471-62-5**	**247-722-4**
Route of exposure	inhalational		
Type of examination	Two-Generation Reproduction Toxicity Study		
Species	rat		
Method	OECD 416		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**m-tolylidene diisocyanate**	**26471-62-5**	**247-722-4**
Source	1272/2008/EC, Annex VI		
Evaluation/classification	The classification is according to the current version of the harmonized classification found in Annex VI of Regulation EC 1272/2008.		

STOT - single exposure			
No	**Substance name**	**CAS no.**	**EC no.**
1	**m-tolylidene diisocyanate**	**26471-62-5**	**247-722-4**
Source	1272/2008/EC, Annex VI		
Evaluation/classification	The classification is according to the current version of the harmonized classification found in Annex VI of Regulation EC 1272/2008.		

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 Method Source Evaluation/classification	rats (male/female) OECD 422 ECHA Based on available data, the classification criteria are not met.
2 2-methoxy-1-methylethyl acetate 108-65-6 203-603-9	
Route of exposure	oral
Species Method Source Evaluation/classification	rats (male/female) OECD 422 ECHA 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	**Substance name**	**CAS no.**		**EC no.**	
1	**Hydrocarbons, C9, aromatics**	**64742-95-6**		**918-668-5**	
LL50 Duration of exposure			10 96	mg/l h	
Species Method Source		Oncorhynchus mykiss OECD 203 ECHA			
2	**2-methoxy-1-methylethyl acetate**	**108-65-6**		**203-603-9**	
LC50 Duration of exposure		100 -	180 96	mg/l h	
Species Method Source		Oncorhynchus mykiss OECD 203 ECHA			
3	**2-methoxy-1-methylethyl acetate**	**108-65-6**		**203-603-9**	
LC50 Duration of exposure		100 -	180 96	mg/l h	
Species Method Source		Oncorhynchus mykiss OECD 203 ECHA			
4	**m-tolylidene diisocyanate**	**26471-62-5**		**247-722-4**	
LC50 Duration of exposure			133 96	mg/l h	
Species Source		Oncorhynchus mykiss 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			4,5		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	**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			
4	**m-tolylidene diisocyanate**	**26471-62-5**		**247-722-4**	
EC50			12,5		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-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	**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			

Toxicity to algae (acute)					
No	**Substance name**	**CAS no.**		**EC no.**	
1	**Hydrocarbons, C9, aromatics**	**64742-95-6**		**918-668-5**	
EL50			3,1		mg/l
Duration of exposure			72		h
Species		Raphidocelis 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-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			
4	**m-tolylidene diisocyanate**	**26471-62-5**	**247-722-4**	
EC50		3230	mg/l	
Duration of exposure		72	h	
Species	Skeletonema costatum			
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	
Species	activated sludge			
Method	OECD 209			
Source	ECHA			
3	**2-methoxy-1-methylethyl acetate**	**108-65-6**	**203-603-9**	
EC10	>	1000	mg/l	
Duration of exposure		30	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		83	%	
Duration		28	day(s)	
Method	OECD 301 F			
Source	ECHA			
Evaluation	readily biodegradable			
3	**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			
4	**m-tolylidene diisocyanate**	**26471-62-5**	**247-722-4**	
Value		0	%	
Duration		28	day(s)	
Method	OECD 302 C			

Source		ECHA		
5	**triphenyl phosphite**	**101-02-0**	**202-908-4**	
Type		aerobic biodegradation		
Value			84	%
Duration			28	day(s)
Method		OECD 301 D		
Source		ECHA		
Evaluation/classification		Readily biodegradable		

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)				
No	**Substance name**	**CAS no.**	**EC no.**	
1	**m-tolylidene diisocyanate**	**26471-62-5**	**247-722-4**	
BCF			180	
Species		Cyprinus carpio		
Method		OECD 305 E		
Source		ECHA		

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	**2-methoxy-1-methylethyl acetate**	**108-65-6**	**203-603-9**	
log Pow			1,2	
Reference temperature			20	°C
Method		OECD 117		
Source		ECHA		
3	**m-tolylidene diisocyanate**	**26471-62-5**	**247-722-4**	
log Pow			3,43	
Reference temperature			22	°C
with reference to		pH 7		
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			
No	**Substance name**	**CAS no.**	**EC no.**
1	**Hydrocarbons, C9, aromatics**	**64742-95-6**	**918-668-5**
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

ADR/RID/ADN	UN1263
IMDG	UN1263
ICAO-TI / IATA	UN1263

14.2 UN proper shipping name

ADR/RID/ADN	PAINT
IMDG	PAINT
ICAO-TI / IATA	Paint

14.3 Transport hazard class(es)

ADR/RID/ADN - Class	3
Label	3
Classification code	F1
Tunnel restriction code	D/E
Hazard identification no.	30
IMDG - Class	3
Label	3
ICAO-TI / IATA - Class	3
Label	3

14.4 Packing group

ADR/RID/ADN	III
IMDG	III
ICAO-TI / IATA	III

14.5 Environmental hazards

ADR/RID/ADN	Symbol "fish and tree"
IMDG	Symbol "fish and tree"
EmS	F-E+S-E

14.6 Special precautions for user

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

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

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

REACH candidate list of substances of very high concern (SVHC) for authorisation

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

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3, 40

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-methoxypropyl acetate**	**70657-70-4**	**274-724-2**	**75**
2	**m-tolylidene diisocyanate**	**26471-62-5**	**247-722-4**	**74, 75**
3	**tosyl isocyanate**	**4083-64-1**	**223-810-8**	**75**
4	**triphenyl phosphite**	**101-02-0**	**202-908-4**	**75**

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:	E2, 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	76,59 %

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. : h, type: lb = 750 g/l
Max. VOC content (limit value) of the product in its ready for use condition = < 750 g/l

National regulations

Water Hazard Class (Germany)

Class 2
Source Classification according to AwSV (Regulation on facilities for handling substances that are hazardous to water).

Other regulations

GISCODE M-GF05 Solvent-based primers, colourless

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)

EUH014 Reacts violently with water.
H302 Harmful if swallowed.

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H351	Suspected of causing cancer.
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.

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.

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

C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
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.

Creation of the safety data sheet
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This information is based on our present knowledge and experience.
The safety data sheet describes products with a view to safety requirements.
It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:
Alterations to the previous edition are marked in the left-hand margin.

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Prod-ID 653457