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

1.1 Product identifier

Trade name

einzA Isolier- und Sperrgrund, weiß

UFI:
27TC-P1VC-S00D-0KA3

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)
Eye Dam. 1; H318
Flam. Liq. 2; H225
Skin Irrit. 2; H315

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


GHS05

Signal word
Danger

Hazardous component(s) to be indicated on label:
2-methylpropan-1-ol

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.

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.
P280	Wear protective gloves/eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
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.

UFI:
27TC-P1VC-S00D-0KA3

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	**ethanol**			
	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 25,00 - < 50,00	wt%
2	**2-methylpropan-1-ol**			
	78-83-1 201-148-0 603-108-00-1 01-2119484609-23	Eye Dam. 1; H318 Flam. Liq. 3; H226 Skin Irrit. 2; H315 STOT SE 3; H335 STOT SE 3; H336	>= 10,00 - < 25,00	wt%
3	**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**			
	- 918-481-9 - 01-2119457273-39	Asp. Tox. 1; H304 EUH066	< 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)

1	-	Eye Irrit. 2; H319: C >= 50%	-	-

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	**ethanol**	**64-17-5**		**200-578-6**	
	TRGS 900				
	Ethanol				
	WEL long-term (8-hr TWA reference period)	380	mg/m³	200	ml/m³
	Ceiling Limit Notes	4 (II) Y			
2	**2-methylpropan-1-ol**	**78-83-1**		**201-148-0**	
	TRGS 900				
	2-Methylpropan-1-ol				
	WEL long-term (8-hr TWA reference period)	310	mg/m³	100	ml/m³
	Ceiling Limit Notes	1(I) Y			

3	**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)	

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	**Exposure time**	**Effect**	**Value**	
1	**ethanol**			**64-17-5 200-578-6**	
	dermal	Long term (chronic)	systemic	8238	mg/kg/day
	inhalative	Long term (chronic)	systemic	380	mg/m³
2	**2-methylpropan-1-ol**			**78-83-1 201-148-0**	
	inhalative	Long term (chronic)	local	310	mg/m³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	**Exposure time**	**Effect**	**Value**	
1	**ethanol**			**64-17-5 200-578-6**	
	inhalative	Long term (chronic)	systemic	114	mg/m³
2	**2-methylpropan-1-ol**			**78-83-1 201-148-0**	
	inhalative	Long term (chronic)	local	55	mg/m³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	**Type**	**Value**	
1	**ethanol**		**64-17-5 200-578-6**	
	water	fresh water	0,96	mg/L
	water	marine water	0,79	mg/L
	water	fresh water sediment	3,6	mg/kg dry weight
	water	marine water sediment	2,9	mg/L
	soil	-	0,63	mg/kg dry weight
	sewage treatment plant	-	580	mg/L
	secondary poisoning	-	0,38	g/kg
	with reference to: food			

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	12	-	13	°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
No data available

Solubility in water	
Comments	immiscible

Solubility
No data available

Partition coefficient n-octanol/water (log value)			
No	**Substance name**	**CAS no.**	**EC no.**
1	**ethanol**	**64-17-5**	**200-578-6**
log Pow		-0,35	
Reference temperature		24	°C
with reference to	pH 7,4		
Method	OECD 107		
Source	ECHA		
2	**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	27	- 30	sec
Reference temperature		20	°C
Method	DIN EN 2431 (6 mm)		

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

Particle characteristics
No data available

Microplastics			
This product contains microplastics.			
Value		20,08	%

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	**ethanol**	**64-17-5**		**200-578-6**
LD50		10470		mg/kg bodyweight
Species	rat			
with reference to	95% ethanol in water			
Method	OECD 401			
Source	ECHA			
Evaluation/classification	Based on available data, the classification criteria are not met.			
2	**2-methylpropan-1-ol**	**78-83-1**		**201-148-0**
LD50		>	2830	mg/kg bodyweight
Species	rat			
Method	OECD 401			
Source	ECHA			
3	**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	**Substance name**	**CAS no.**		**EC no.**
1	**2-methylpropan-1-ol**	**78-83-1**		**201-148-0**
LD50		>	2000	mg/kg bodyweight
Species	rabbit			
Method	OECD 402			
Source	ECHA			

Acute inhalational toxicity				
No	**Substance name**	**CAS no.**		**EC no.**
1	**ethanol**	**64-17-5**		**200-578-6**
LC50			124,7	mg/l
Duration of exposure			4	h
State of aggregation	Vapour			
Species	rat			
Method	OECD 403			
Source	ECHA			
Evaluation/classification	Based on available data, the classification criteria are not met.			
2	**2-methylpropan-1-ol**	**78-83-1**		**201-148-0**
LC50		>	18,8	mg/l
Duration of exposure			6	h
State of aggregation	Vapour			

Species	rat
Method	40 CFR 799; 40 CFR Part 798.1150, 798.6050 & 798.6200
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Skin corrosion/irritation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**ethanol**	**64-17-5**	**200-578-6**
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		non-irritant	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	**2-methylpropan-1-ol**	**78-83-1**	**201-148-0**
Evaluation/classification		The classification is according to the current version of the harmonized classification found in Annex VI of Regulation EC 1272/2008.	

Serious eye damage/irritation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**ethanol**	**64-17-5**	**200-578-6**
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		irritant	
Evaluation/classification		Based on available data, the classification criteria are met.	
2	**2-methylpropan-1-ol**	**78-83-1**	**201-148-0**
Duration of exposure		24	h
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		Irreversible effects on the eye	
Evaluation/classification		Based on available data, the classification criteria are met.	

Respiratory or skin sensitisation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**ethanol**	**64-17-5**	**200-578-6**
Route of exposure		respiratory tract	
Source		ECHA	
Evaluation		non-sensitizing	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		Skin	
Species		mouse	
Source		ECHA	
Evaluation		non-sensitizing	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Germ cell mutagenicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**ethanol**	**64-17-5**	**200-578-6**
Type of examination		in vitro gene mutation study in bacteria	
Species		Salmonella typhimurium	
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		in vitro gene mutation study in mammalian cells	
Species		mouse lymphoma cells	
Method		OECD 476	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		Genotoxicity in vivo	
Species		mouse	
Method		OECD 478	

Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

2	**2-methylpropan-1-ol**	**78-83-1**	**201-148-0**
Type of examination		in vitro gene mutation study in bacteria	
Species		S. typhimurium, other: TA 1535, TA 1537, TA 97, TA98 and TA 100	
Method		OECD 471	
Source		ECHA	
Evaluation/classification		On the basis of the available information, the classification criteria are not met.	

3	**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	**Substance name**	**CAS no.**	**EC no.**
1	**ethanol**	**64-17-5**	**200-578-6**
Route of exposure		oral	
NOAEL			
Type of examination		2 generation study	
Species		mouse	
Method		OECD 416	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		inhalational	
NOAEL		>= 20000 ppm	
Type of examination		Prenatal Developmental Toxicity Study	
Species		rat	
Method		OECD 414	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	**2-methylpropan-1-ol**	**78-83-1**	**201-148-0**
Route of exposure		inhalational	
Type of examination		Two-Generation Reproduction Toxicity Study	
Species		rat	
Method		EPA OPPTS 870.3800	
Source		ECHA	
Evaluation/classification		On the basis of the available information, the classification criteria are not met.	

Carcinogenicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**ethanol**	**64-17-5**	**200-578-6**
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	**2-methylpropan-1-ol**	**78-83-1**	**201-148-0**
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	On the basis of the available information, the classification criteria are not met.

STOT - single exposure
No data available

STOT - repeated exposure				
No	**Substance name**	**CAS no.**		**EC no.**
1	**ethanol**	**64-17-5**		**200-578-6**
Route of exposure	oral			
Duration of exposure		14		week/s
Species	rat			
Target organ	kidneys			
Method	OECD 408			
Source	ECHA			
Evaluation/classification	Based on available data, the classification criteria are not met.			
2	**2-methylpropan-1-ol**	**78-83-1**		**201-148-0**
Route of exposure	oral			
NOAEL	>	1450		mg/kg bw/d
Species	rat			
Method	OECD 408			
Source	ECHA			
Evaluation/classification	On the basis of the available information, the classification criteria are not met.			
3	**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	**Substance name**	**CAS no.**		**EC no.**
1	**ethanol**	**64-17-5**		**200-578-6**
LC50		14200		mg/l

Duration of exposure		96	h
Species	Pimephales promelas		
Method	EPA		
Source	ECHA		
2	**2-methylpropan-1-ol**	**78-83-1**	**201-148-0**
LC50		1430	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Source	ECHA		

Toxicity to fish (chronic)
No data available

Toxicity to Daphnia (acute)			
No	**Substance name**	**CAS no.**	**EC no.**
1	**ethanol**	**64-17-5**	**200-578-6**
EC50		5012	mg/l
Duration of exposure		48	h
Species	Ceriodaphnia dubia		
Method	ASTM Standard E 729-80		
Source	ECHA		
2	**2-methylpropan-1-ol**	**78-83-1**	**201-148-0**
EC50		1100	mg/l
Duration of exposure		48	h
Species	Daphnia pulex		
Method	ASTM Standard E 729-80		
Source	ECHA		

Toxicity to Daphnia (chronic)			
No	**Substance name**	**CAS no.**	**EC no.**
1	**ethanol**	**64-17-5**	**200-578-6**
NOEC		9,6	mg/l
Duration of exposure		9	day(s)
Species	Daphnia magna		
Source	ECHA		
2	**2-methylpropan-1-ol**	**78-83-1**	**201-148-0**
NOEC		20	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Source	ECHA		

Toxicity to algae (acute)			
No	**Substance name**	**CAS no.**	**EC no.**
1	**ethanol**	**64-17-5**	**200-578-6**
EC50		275	mg/l
Duration of exposure		72	h
Species	Chlorella vulgaris		
Method	OECD 201		
Source	ECHA		
2	**2-methylpropan-1-ol**	**78-83-1**	**201-148-0**
EC50		593	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)
No data available

Bacteria toxicity
No data available

12.2 Persistence and degradability

Biodegradability						
No	**Substance name**	**CAS no.**			**EC no.**	
1	**ethanol**	**64-17-5**			**200-578-6**	
Type		aerobic biodegradation				
Value		appr.		84		%
Duration				20		day(s)
Source		ECHA				
Evaluation		readily biodegradable				
2	**2-methylpropan-1-ol**	**78-83-1**			**201-148-0**	
Type		BOD/COD				
Value		70	-	80		%
Duration				28		day(s)
Method		OECD 301 D				
Source		ECHA				
Evaluation		readily biodegradable				

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)						
No	**Substance name**	**CAS no.**			**EC no.**	
1	**ethanol**	**64-17-5**			**200-578-6**	
log Pow				-0,35		
Reference temperature				24		°C
with reference to		pH 7,4				
Method		OECD 107				
Source		ECHA				
2	**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

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.	33
Special Provision 640	640D
IMDG - Class	3
Label	3
ICAO-TI / IATA - Class	3
Label	3

14.4 Packing group

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

14.5 Environmental hazards

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, 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-methylpropan-1-ol**	**78-83-1**	**201-148-0**	**75**
2	**butanone**	**78-93-3**	**201-159-0**	**75**
3	**Limestone**	**1317-65-3**	**215-279-6**	**75**
4	**propylene carbonate**	**108-32-7**	**203-572-1**	**75**
5	**titanium dioxide**	**13463-67-7**	**236-675-5**	**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:	P5b

Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)	
VOC content	46,83 %

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

Other regulations

GISCODE BSL30 Covering agents, solvent based, containing aromatic substances, labeled

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.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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.

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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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