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

1.1 Product identifier

Trade name

einzA mix Novatrol Alpenöl, Basis 0

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 3; H412

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

-

Signal word
-

Hazard statement(s)

H412	Harmful to aquatic life with long lasting effects.

Hazard statements (EU)

EUH208	Contains 4-morpholine carbaldehyde, 3-iodo-2-propynyl butylcarbamate, 2-Hydroxyethyl methacrylate, 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Precautionary statement(s)

P501	Dispose of contents/container to a facility in accordance with local and national regulations.

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	**4-morpholine carbaldehyde**			
	4394-85-8 224-518-3 - 01-2119987993-12	Skin Sens. 1B; H317	< 2,50	wt%
2	**3-iodo-2-propynyl butylcarbamate**			
	55406-53-6 259-627-5 616-212-00-7 -	Acute Tox. 3; H331 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT RE 1; H372	>= 0,25 - < 1,00	wt%
3	**2-Hydroxyethyl methacrylate**			
	868-77-9 212-782-2 607-124-00-X 01-2119490169-29	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 0,50	wt%
4	**1,2-benzisothiazol-3(2H)-one**			
	2634-33-5 220-120-9 613-088-00-6 -	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Eye Dam. 1; H318 Acute Tox. 2; H330 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0,10	wt%
5	**pyridine-2-thiol 1-oxide, sodium salt**			
	3811-73-2 223-296-5 613-344-00-7 -	EUH070 Acute Tox. 4; H302 Acute Tox. 3; H311 Acute Tox. 3; H331 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	< 0,10	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	-	-	M = 10	M = 1

4	-	Skin Sens. 1A; H317: C >= 0,036%	M = 1	M = 1
5	-	-	M = 100	-

No	Route, target organ, concrete effect
2	H372 -; larynx; -
5	H372 -; nervous system; -

Acute toxicity estimate (ATE) values			
No	**oral**	**dermal**	**inhalative**
4	450 mg/kg bodyweight		
5	500 mg/kg bodyweight	790 mg/kg bodyweight	

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
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
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
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
No special measures necessary.

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 from freezing.

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
12 Non-combustible liquids that cannot be assigned to any of the above storage classes.

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	**3-iodo-2-propynyl butylcarbamate**	**55406-53-6**		**259-627-5**	
	TRGS 900				
	3-Iod-2-propinylbutylcarbamat				
	WEL long-term (8-hr TWA reference period)	0,058	mg/m³	0,005	ml/m³
	Ceiling Limit Skin resorption / sensibilisation Notes	2(I) Sh Y, 11			
2	**pyridine-2-thiol 1-oxide, sodium salt**	**3811-73-2**		**223-296-5**	

	TRGS 900	
	Pyridin-2-thiol-1-oxid, Natriumsalz	
	einatembare Fraktion	
	WEL long-term (8-hr TWA reference period)	0,2 E mg/m³
	Ceiling Limit	2(II)
	Skin resorption / sensibilisation	H
	Notes	Y

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	**Exposure time**	**Effect**	**Value**	
1	**4-morpholine carbaldehyde**			**4394-85-8 224-518-3**	
	dermal	Long term (chronic)	systemic	11,7	mg/kg/day
	inhalative	Long term (chronic)	systemic	50,3	mg/m³
	inhalative	Long term (chronic)	local	13,3	mg/m³
2	**2-Hydroxyethyl methacrylate**			**868-77-9 212-782-2**	
	dermal	Long term (chronic)	systemic	1,39	mg/kg/day
	inhalative	Long term (chronic)	systemic	4,9	mg/m³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	**Exposure time**	**Effect**	**Value**	
1	**4-morpholine carbaldehyde**			**4394-85-8 224-518-3**	
	oral	Long term (chronic)	systemic	4,17	mg/kg/day
	dermal	Long term (chronic)	systemic	4,17	mg/kg/day
	inhalative	Long term (chronic)	systemic	8,93	mg/m³
	inhalative	Long term (chronic)	local	13,3	mg/m³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	**Type**	**Value**	
1	**4-morpholine carbaldehyde**		**4394-85-8 224-518-3**	
	water	fresh water	0,5	mg/L
	water	marine water	0,05	mg/L
	water	fresh water sediment	1,85	mg/kg
	with reference to: dry weight			
	water	marine water sediment	0,185	mg/kg
	with reference to: dry weight			
	soil	-	0,076	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	2000	mg/L
2	**2-Hydroxyethyl methacrylate**		**868-77-9 212-782-2**	
	water	fresh water	0,482	mg/L
	water	marine water	0,048	mg/L
	water	fresh water sediment	3,79	mg/kg dry weight
	water	marine water sediment	3,79	mg/kg dry weight
	soil	-	0,476	mg/kg dry weight
	sewage treatment plant	-	10	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			
Value	6,0	-	7,0

Boiling point / boiling range			
Value	appr.	100	°C

Melting point/freezing point
No data available

Decomposition temperature
No data available

Flash point
Not applicable

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	appr.	1,00	g/cm³
Reference temperature		20	°C
Method	DIN 51757		

Solubility in water

Comments	miscible

Solubility

No data available

Partition coefficient n-octanol/water (log value)

No	Substance name	CAS no.	EC no.
1	4-morpholine carbaldehyde	4394-85-8	224-518-3

log Pow		-1,2	
Reference temperature		23	°C
Method	OECD 107		
Source	ECHA		

No	Substance name	CAS no.	EC no.
2	2-Hydroxyethyl methacrylate	868-77-9	212-782-2

log Pow		0,42	
Reference temperature		25	°C
Method	OECD 107		
Source	ECHA		

Kinematic viscosity

Value	appr.	25	sec
Reference temperature		20	°C
Method	DIN EN 2431 (4 mm)		

Solvent separation test

Not applicable

Particle characteristics

No data available

Microplastics

This product contains microplastics.

Value		0,30	%
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	**4-morpholine carbaldehyde**	**4394-85-8**		**224-518-3**
LD50	>	7360		mg/kg bodyweight
Species	rat			
Method	OECD 401			
Source	ECHA			
2	**2-Hydroxyethyl methacrylate**	**868-77-9**		**212-782-2**
LD50		5564		mg/kg bodyweight
Species	rat			
Source	ECHA			
3	**1,2-benzisothiazol-3(2H)-one**	**2634-33-5**		**220-120-9**
ATE		450		mg/kg bodyweight
Source	1272/2008/EC, Annex VI			
4	**pyridine-2-thiol 1-oxide, sodium salt**	**3811-73-2**		**223-296-5**
ATE		500		mg/kg bodyweight
Species	rat			
Source	1272/2008/EC, Annex VI			

Acute dermal toxicity				
No	**Substance name**	**CAS no.**		**EC no.**
1	**4-morpholine carbaldehyde**	**4394-85-8**		**224-518-3**
LD50	>	18400		mg/kg bodyweight
Species	rabbit			
Method	OECD 402			
Source	ECHA			
2	**2-Hydroxyethyl methacrylate**	**868-77-9**		**212-782-2**
LD50	>	5000		mg/kg bodyweight
Species	rabbit			
Source	ECHA			
3	**pyridine-2-thiol 1-oxide, sodium salt**	**3811-73-2**		**223-296-5**
ATE		790		mg/kg bodyweight
Species	rat			
Source	1272/2008/EC, Annex VI			

Acute inhalational toxicity (result of the ATE calculation for the mixture)
Product Name

einzA mix Novatrol Alpenöl, Basis 0	
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	**4-morpholine carbaldehyde**	**4394-85-8**		**224-518-3**
LC50		>	5,3	mg/l
Duration of exposure			4	h
State of aggregation		Dust/mist		
Species		rat		
Method		OECD 403		
Source		ECHA		
2	**1,2-benzisothiazol-3(2H)-one**	**2634-33-5**		**220-120-9**
ATE			0,21	mg/l
State of aggregation		Dust/mist		
Source		1272/2008/EC, Annex VI		
Evaluation/classification		Based on available data, the classification criteria are met.		
3	**pyridine-2-thiol 1-oxide, sodium salt**	**3811-73-2**		**223-296-5**
ATE			0,5	mg/l
State of aggregation		Dust/mist		
Species		rat		
Source		1272/2008/EC, Annex VI		

Skin corrosion/irritation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**4-morpholine carbaldehyde**	**4394-85-8**	**224-518-3**
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		non-irritant	

Serious eye damage/irritation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**4-morpholine carbaldehyde**	**4394-85-8**	**224-518-3**
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		non-irritant	
2	**2-Hydroxyethyl methacrylate**	**868-77-9**	**212-782-2**
Species		rabbit	
Source		ECHA	
Evaluation		irritant	

Respiratory or skin sensitisation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**4-morpholine carbaldehyde**	**4394-85-8**	**224-518-3**
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation		sensitizing	
2	**2-Hydroxyethyl methacrylate**	**868-77-9**	**212-782-2**
Route of exposure		Skin	
Species		guinea pig	
Method		Buehler	
Source		ECHA	
Evaluation		sensitizing	

Germ cell mutagenicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**4-morpholine carbaldehyde**	**4394-85-8**	**224-518-3**
Type of examination	Bacterial Reverse Mutation Test		
Species	S. typhimurium TA 1535, TA 1537, TA 98, TA 100 and E. coli WP2		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	**2-Hydroxyethyl methacrylate**	**868-77-9**	**212-782-2**
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**4-morpholine carbaldehyde**	**4394-85-8**	**224-518-3**
Route of exposure	oral		
Species	rat		
Method	OECD 421		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**2-Hydroxyethyl methacrylate**	**868-77-9**	**212-782-2**
Route of exposure	inhalational		
NOAEC	>= 4,1 mg/l		
Species	mouse		
Method	OECD 451		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - single exposure
No data available

STOT - repeated exposure			
No	**Substance name**	**CAS no.**	**EC no.**
1	**2-Hydroxyethyl methacrylate**	**868-77-9**	**212-782-2**
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	**4-morpholine carbaldehyde**	**4394-85-8**		**224-518-3**
LC50		> 500		mg/l
Duration of exposure		96		h
Species		Leuciscus idus		
Method		DIN 38412 Part 15		
Source		ECHA		
2	**2-Hydroxyethyl methacrylate**	**868-77-9**		**212-782-2**
LC50		> 100		mg/l
Duration of exposure		96		h
Species		Oryzias latipes		
Method		OECD 203		
Source		ECHA		

Toxicity to fish (chronic)
No data available

Toxicity to Daphnia (acute)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**4-morpholine carbaldehyde**	**4394-85-8**		**224-518-3**
EC50		> 500		mg/l
Duration of exposure		48		h
Species		Daphnia magna		
Source		ECHA		
2	**2-Hydroxyethyl methacrylate**	**868-77-9**		**212-782-2**
EC50		380		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-Hydroxyethyl methacrylate**	**868-77-9**		**212-782-2**
NOEC		49,6		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	**4-morpholine carbaldehyde**	**4394-85-8**		**224-518-3**
EC50		23880		mg/l
Duration of exposure		72		h
Species		Desmodesmus subspicatus		
Method		DIN 38412 T.9		
Source		ECHA		
2	**2-Hydroxyethyl methacrylate**	**868-77-9**		**212-782-2**
EC50		345		mg/l
Duration of exposure		72		h
Species		Scenedesmus capricornutum		
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	**4-morpholine carbaldehyde**	**4394-85-8**			**224-518-3**
Type		aerobic biodegradation			
Value				100	%
Duration				28	day(s)
Method		OECD 301 A			
Source		ECHA			
Evaluation		readily biodegradable			
2	**2-Hydroxyethyl methacrylate**	**868-77-9**			**212-782-2**
Type		BOD			
Value		92	-	100	%
Duration				14	day(s)
Method		OECD 301 C			
Source		ECHA			
Evaluation		readily biodegradable			

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)					
No	**Substance name**	**CAS no.**			**EC no.**
1	**4-morpholine carbaldehyde**	**4394-85-8**			**224-518-3**
BCF		<		1,9	
Species		Cyprinus carpio			
Method		OECD 305 C			
Source		ECHA			

Partition coefficient n-octanol/water (log value)					
No	**Substance name**	**CAS no.**			**EC no.**
1	**4-morpholine carbaldehyde**	**4394-85-8**			**224-518-3**
log Pow				-1,2	
Reference temperature				23	°C
Method		OECD 107			
Source		ECHA			
2	**2-Hydroxyethyl methacrylate**	**868-77-9**			**212-782-2**
log Pow				0,42	
Reference temperature				25	°C
Method		OECD 107			
Source		ECHA			

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

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 3, 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	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	75
2	2-butoxyethanol	111-76-2	203-905-0	75
3	2-Hydroxyethyl methacrylate	868-77-9	212-782-2	75
4	3-iodo-2-propynyl butylcarbamate	55406-53-6	259-627-5	75

5	**phthalic-anhydride**	**85-44-9**	**201-607-5**	**75**
6	**pyridine-2-thiol 1-oxide, sodium salt**	**3811-73-2**	**223-296-5**	**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	1,63 %

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. : e, type: wb = 130 g/l Max. VOC content (limit value) of the product in its ready for use condition = < 130 g/l

National regulations

Water Hazard Class (Germany)

Class 3

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

Other regulations

GISCODE BSW20 Covering agents, solvent based

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)

EUH070	Toxic by eye contact.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic 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.

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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