

Product no.: 0069065

Current version: 3.0.0, issued: 11.06.2020 Replaced version: 2.0.0, issued: 20.09.2017 Region: GB

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

1.1 Product identifier

Trade name

einzA mix Härter LawiDox, für Epoxidharz-Beschichtung Basis 3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Epoxy resin Hardener

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

einzA Farben GmbH & Co KG Junkersstraße 13 30179 Hannover

Telephone no. +49 (0)511 67490-0 Fax no. +49 (0)511 67490-20 e-mail info@einzA.com

Advice on Safety Data Sheet

sdb info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4; H302 Aquatic Chronic 3; H412 Eye Dam. 1; H318 Skin Corr. 1B; H314 Skin Sens. 1; H317

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

Danger

Hazardous component(s) to be indicated on label:

3-aminomethyl-3,5,5-trimethylcyclohexylamine

benzyl alcohol

m-phenylenebis(methylamine)

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia

Hazard statement(s)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.



Trade name: einzA mix Härter LawiDox, für Epoxidharz-Beschichtung Basis 3

Product no.: 0069065

Current version: 3.0.0, issued: 11.06.2020 Replaced version: 2.0.0, issued: 20.09.2017 Region: GB

P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves/eye protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. 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.

P405 Store locked up.

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

2.3 Other hazards

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name		Additional information				
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Conce	entration		%	
1	3-aminomethyl-3,5,5	-trimethylcyclohexylamine					
	2855-13-2	Acute Tox. 4; H302	>=	25.00 - <	50.00	%-b.w.	
	220-666-8	Acute Tox. 4; H312					
	612-067-00-9	Aquatic Chronic 3; H412					
	01-2119514687-32	Skin Corr. 1B; H314					
		Skin Sens. 1; H317					
2	benzyl alcohol						
	100-51-6	Acute Tox. 4; H302	>=	25.00 - <	50.00	%-b.w.	
	202-859-9	Acute Tox. 4; H332					
	603-057-00-5						
	01-2119492630-38						
3	m-phenylenebis(met	hylamine)					
	1477-55-0	Acute Tox. 4; H332	>=	10.00 - <	25.00	%-b.w.	
	216-032-5	Acute Tox. 4; H302					
	-	Aquatic Chronic 3; H412					
	01-2119480150-50	Skin Corr. 1B; H314					
		Skin Sens. 1B; H317					
		EUH071					
4	Reaction products o	f di-, tri- and tetra-propoxylated propane-1,2-diol with					
	ammonia						
	9046-10-0	Skin Corr. 1C; H314	<	5.00		%-b.w.	
	-	Eye Dam. 1; H318					
	-	Aquatic Chronic 3; H412					
	01-2119557899-12						

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

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

After inhalation

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

After skin contact

Remove contaminated clothing. After skin contact immediately wash with water and soap and rinse thoroughly. Do NOT use solvents or thinners.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

After ingestion

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



Trade name: einzA mix Härter LawiDox, für Epoxidharz-Beschichtung Basis 3

Product no.: 0069065

Current version: 3.0.0, issued: 11.06.2020 Replaced version: 2.0.0, issued: 20.09.2017 Region: GB

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol resistant foam, CO2, powders, water spray

Unsuitable extinguishing media

water jet.

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Is not allowed to be released into the sewerage or water courses. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Due to the organic solvents' content of the mixture: Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Avoid the inhalation of dust, particulates and spray mist arising from the application of this mixture. Dry sanding, flame cutting and/or welding of the dry paint film may give rise to dust and/or hazardous fumes. Wet [sanding]/[flatting] should be used wherever possible. Avoid inhalation of dust from sanding. For personal protection see section 8.

General protective and hygiene measures

Avoid skin and eye contact. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Advice on protection against fire and explosion

Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Electrical equipment should be protected to the appropriate standard. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Comply with legal health and safety regulations; Prevent unauthorised access. Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight. Keep away from sources of ignition. No smoking.

Requirements for storage rooms and vessels

Always keep in containers of same material as the original one. Never use pressure to empty: container is not a pressure vessel. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed. Observe label precautions.

Incompatible products

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

7.3 Specific end use(s)



Trade name: einzA mix Härter LawiDox, für Epoxidharz-Beschichtung Basis 3

Product no.: 0069065

Current version: 3.0.0, issued: 11.06.2020 Replaced version: 2.0.0, issued: 20.09.2017 Region: GB

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC n	10
	Route of exposure	Exposure time	Effect	Value	
1	benzyl alcohol			100-51-6 202-859-9	
	dermal	Long term (chronic)	systemic	9.5	mg/kg/day
	dermal	Short term (acut)	systemic	47	mg/kg/day
	inhalative	Long term (chronic)	systemic	90	mg/m³
	inhalative	Short term (acut)	systemic	450	mg/m³
2	m-phenylenebis(methyla	mine)	-	1477-55-0 216-032-5	
	dermal	Long term (chronic)	systemic	0.33	mg/kg
	inhalative	Long term (chronic)	systemic	1.2	mg/m³
	inhalative	Long term (chronic)	local	0.2	mg/m³
3	Reaction products of di-	, tri- and tetra-propoxylated pr	opane-1,2-diol with ammonia	9046-10-0	
	dermal	Long term (chronic)	systemic	2.5	mg/kg/day
	inhalative	Long term (chronic)	systemic	1.36	mg/m³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	3-aminomethyl-3,5,5-trimethy	lcyclohexylamine		2855-13-2	
				220-666-8	
	oral	Long term (chronic)	systemic	0.526	mg/kg/day
2	benzyl alcohol			100-51-6	
				202-859-9	
	oral	Long term (chronic)	systemic	5	mg/kg/day
	oral	Short term (acut)	systemic	25	mg/kg/day
	dermal	Long term (chronic)	systemic	5.7	mg/kg/day
	dermal	Long term (chronic)	systemic	28.5	mg/kg/day
	inhalative	Long term (chronic)	systemic	8.11	mg/m³
	inhalative	Short term (acut)	systemic	40.55	mg/m³

PNEC values

No	Substance name		CAS / EC no	
140	ecological compartment	Туре	Value	
1	3-aminomethyl-3,5,5-trimethylcycloh		2855-13-2 220-666-8	
	water	fresh water	0.06	mg/L
	water	marine water	0.006	mg/L
	water	Aqua intermittent	0.23	mg/L
	water	fresh water sediment	5.784	mg/kg dry weight
	water	marine water sediment	0.578	mg/kg dry weight
	soil	-	1.121	mg/kg dry weight
	sewage treatment plant	-	3.18	mg/L
2	benzyl alcohol		100-51-6 202-859-9	
	water	fresh water	1	mg/L
	water	marine water	0.1	mg/L
	water	Aqua intermittent	2.3	mg/L
	water	fresh water sediment	5.27	mg/kg
	with reference to: dry weight			
	water	marine water sediment	0.527	mg/kg
	with reference to: dry weight	·	•	
	soil	-	0.456	mg/kg
	with reference to: dry weight		•	
	sewage treatment plant	-	39	mg/L
3	m-phenylenebis(methylamine)		1477-55-0 216-032-5	
	water	fresh water	0.094	mg/L
	water	marine water	0.0094	mg/L



Product no.: 0069065

Current version: 3.0.0, issued: 11.06.2020 Replaced version: 2.0.0, issued: 20.09.2017 Region: GB

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	water	Aqua intermittent	0.152	mg/L
	water	fresh water sediment	0.43	mg/kg
	with reference to: dry mass			
	water	marine water sediment	0.043	mg/kg
	with reference to: dry mass			
	soil	-	0.045	mg/kg
	with reference to: dry mass			
	sewage treatment plant	-	10	mg/L
4	Reaction products of di-, tri- and tetra-propo	xylated propane-1,2-diol with ammonia	9046-10-0	
			-	
	water	fresh water	0.015	mg/L
	water	marine water	0.014	mg/L
	water	fresh water sediment	0.132	mg/kg dry weight
	water	marine water sediment	0.125	mg/kg dry weight
	soil	-	0.018	mg/kg dry weight
	sewage treatment plant	-	7.5	mg/L
	secondary poisoning	-	6.93	mg/kg 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. 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>0.4mmBreakthrough time>120minAppropriate MaterialIn case of prolonged exposure: nitrile rubberMaterial thickness>0.4mmBreakthrough time>480min

Other

Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.

Environmental exposure controls

Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour Colour Colo	
liquid	
yellowish	

Odour	
amine-like	

Odour threshold No data available

new Hard
pn value
No data available
NO data available

Boiling point / boiling range
No data available

Melting point / melting range	
No data available	

Decomposition point / decomposition range



Trade name: einzA mix Härter LawiDox, für Epoxidharz-Beschichtung Basis 3

Product no.: 0069065

Current version: 3.0.0, issued: 11.06.2020 Replaced version: 2.0.0, issued: 20.09.2017 Region: GB

No data available					
Flash point	1.	400	°C		
Value	>	100	C		
Ignition temperature					
Value		435	°C		
Auto-ignition temperature					
No data available					
Oxidising properties Not applicable					
Explosive properties					
No data available					
Flammability (solid, gas)					
Not applicable					
Lower flammability or explosive limits					
Value		1.3	% vol		
Upper flammability or explosive limits Value	1	13.00	% vol		
		13.00	% VOI		
Vapour pressure					
Value		0.1	hPa		
Reference temperature		20	°C		
Vapour density					
No data available					
Evaporation rate					
No data available					
Relative density No data available					
Density					
Value Reference temperature		1.02 20	g/cm³ °C		
Method	DIN EN ISO 28		C		
	DIN EN 100 Z	711 2			
Solubility in water		1.			
Comments	partially miscib	le			
Solubility(ies)					
No data available					
Partition coefficient: n-octanol/water					
No Substance name		CAS no.		EC no.	
1 3-aminomethyl-3,5,5-trimethylcyclohexylamino	9	2855-13-2		220-666-8	
log Pow			0.99		
Reference temperature			23	°C	
with reference to	pH 6.34				
Source	ECHA	100 E4 C		202 950 0	
2 benzyl alcohol log Pow	1	100-51-6	1.05	202-859-9	
Reference temperature			20	°C	
Source	ECHA		20	<u> </u>	
Reaction products of di-, tri- and tetra-propox		9046-10-0		•	
log Pow			1.34		
Reference temperature			25	°C	
Method	OECD 117				
Viscosity					
Value	T	300	mPa*s		
Method	DIN EN ISO 32		u 3		
Solvent separation test					
Not applicable					

9.2 Other information

Other information	
No data available.	



Trade name: einzA mix Härter LawiDox, für Epoxidharz-Beschichtung Basis 3

Product no.: 0069065

Current version: 3.0.0, issued: 11.06.2020 Replaced version: 2.0.0, issued: 20.09.2017 Region: GB

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage and handling conditions (See section 7).

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products

None if stored, handled and transported properly. In case of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acut	Acute oral toxicity (result of the ATE calculation for the mixture)				
No	Product Name				
1	einzA mix Härter LawiDox, für Epoxidharz-Beschichtung				
	Basis 3				
ATE	(Mixture)	982.21			
Meth	od	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I,			
		part 3, section 3.1.3.6.			

Acut	Acute oral toxicity				
No	Substance name		CAS no.		EC no.
1	3-aminomethyl-3,5,5-trimethylcyclohexylamine	1	2855-13-2		220-666-8
LD50)			1030	mg/kg bodyweight
Spec	ties	rat			
Meth	od	OECD 401			
Sour	ce	ECHA			
2	benzyl alcohol		100-51-6		202-859-9
LD50)			1230	mg/kg bodyweight
Spec	ies	rat			
3	Reaction products of di-, tri- and tetra-propoxy	rlated	9046-10-0		-
	propane-1,2-diol with ammonia				
LD50)			2627	mg/kg bodyweight
Spec	ies	rat (female)			
Meth	od	OECD 401			
Sour	ce	ECHA			

Acut	Acute dermal toxicity (result of the ATE calculation for the mixture)					
No	Product Name	·				
1	einzA mix Härter LawiDox, für Epoxidharz-Beschichtung					
	Basis 3					
Com	ments	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						
		outside the values that imply a classification / labelling of this mixture according				
		to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg)				

_	1 14 14					
Acut	Acute dermal toxicity					
No	Substance name		CAS no.		EC no.	
1	3-aminomethyl-3,5,5-trimethylcyclohexylamine)	2855-13-2		220-666-8	
LD50		>		2000	mg/kg bodyweight	
Spec	ies	rabbit				
Meth	od	OECD 402				
Sour	ce	ECHA				
2	benzyl alcohol		100-51-6		202-859-9	
LD50				2000	mg/kg bodyweight	
Spec	ies	rabbit				
3	Reaction products of di-, tri- and tetra-propoxy	/lated	9046-10-0		•	
	propane-1,2-diol with ammonia					
LD50				2979	mg/kg bodyweight	
Spec	ies	rabbit				
Meth	od	OECD 402				



Trade name: einzA mix Härter LawiDox, für Epoxidharz-Beschichtung Basis 3

Product no.: 0069065

Current version: 3.0.0, issued: 11.06.2020 Replaced version: 2.0.0, issued: 20.09.2017 Region: GB

Source		ECHA			
Acut	Acute inhalational toxicity (result of the ATE calculation for the mixture)				
No	Product Name				
1	einzA mix Härter LawiDox, für Epoxidharz-Beschichtung				
	Basis 3				
Com	ments	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).			

Acut	e inhalational toxicity					
No	Substance name		CAS no.		EC no.	
1	3-aminomethyl-3,5,5-trimethylcyclohexylamine	1	2855-13-2		220-666-8	
LC50		>		5.01	mg/l	
Dura	tion of exposure			4	h	
State	of aggregation	Dust/mist				
Spec	ies	rat				
Meth	od	OECD 403				
Sour	ce	ECHA				
2	benzyl alcohol		100-51-6		202-859-9	
LC50				4178	mg/l	
Dura	tion of exposure			4	h	
State	of aggregation	mist				
Spec	ies	rat				
Sour	ce	ECHA				

Skin	corrosion/irritation				
No	Substance name		CAS no.	EC no.	
1	3-aminomethyl-3,5,5-trimethylcyclohexylamine		2855-13-2	220-666-8	
Spec	ies	rabbit			
Metho	od	Draize method			
Source	ce	ECHA			
Evalu	ation	corrosive			
2	benzyl alcohol		100-51-6	202-859-9	
Spec	ies	rabbit			
Metho	od	OECD 404			
Source	ce	ECHA			
Evalu	ation	non-irritant			
3	Reaction products of di-, tri- and tetra-propoxy	lated	9046-10-0	-	
	propane-1,2-diol with ammonia				
Spec	ies	rabbit			
Method		OECD 404			
Source		ECHA			
Evalu	ation	corrosive			

Serio	Serious eye damage/irritation					
No	Substance name		CAS no.	EC no.		
1	3-aminomethyl-3,5,5-trimethylcyclohexylamine		2855-13-2	220-666-8		
Spec	cies	rabbit				
Meth	od	OECD 405				
Sour	ce	ECHA				
Evalu	uation	corrosive				
2	benzyl alcohol		100-51-6	202-859-9		
Spec	cies	rabbit				
Meth	od	OECD 405				
Sour	ce	ECHA				
Evalu	uation	non-irritant				
3	Reaction products of di-, tri- and tetra-propoxy	lated	9046-10-0	-		
	propane-1,2-diol with ammonia					
Spec	Species rabbit					
Meth	Method OE					
Sour	Source					
Evalu	uation	corrosive				

Resp	Respiratory or skin sensitisation					
No	Substance name	CAS no.	EC no.			
1	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8			
Route	e of exposure	Skin				
Spec	ties	guinea pig				
Meth	od	OECD 406				
Sour	ce	ECHA				



Product no.: 0069065

Current version: 3.0.0, issued: 11.06.2020 Replaced version: 2.0.0, issued: 20.09.2017 Region: GB

Evaluation	sensitizing	
2 benzyl alcohol	100-51-6	202-859-9
Route of exposure	Skin	
Species	mouse	
Method	OECD 429	
Source	ECHA	
Evaluation	non-sensitizing	

Gern	n cell mutagenicity			
No	Substance name	CAS no.	EC no.	
1	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8	
Sour	ce	ECHA		
Evalu	uation/classification	Based on available data, the classification criteria are not met.		
2	benzyl alcohol	100-51-6	202-859-9	
Spec	ies	Salmonella typhimurium TA98, TA100, TA1535,	TA1537	
Meth	od	OECD 471		
Sour	ce	ECHA		
Evalu	uation/classification	Based on available data, the classification criter	ia are not met.	

Rep	Reproduction toxicity					
No	Substance name	CAS no.	EC no.			
1	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8			
Sour	ce	ECHA				
Evaluation/classification		Based on available data, the classificat	ion criteria are not met.			

Card	Carcinogenicity								
No	Substance name	CAS no.		EC no.					
1	benzyl alcohol	100-51-6		202-859-9					
Rout	e of exposure	oral							
			400	mg/kg bw/d					
Spec	cies	rat							
Meth	nod	OECD 451							
Sour	ce	ECHA							
Eval	uation/classification	Based on available data, the	classification crite	ria are not met.					

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration hazard

No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

SECTION 12: Ecological information

12.1 Toxicity

Toxic	Toxicity to fish (acute)						
No	Substance name		CAS no.		EC no.		
1	3-aminomethyl-3,5,5-trimethylcyclohexylamine		2855-13-2		220-666-8		
LC50				110	mg/l		
Durat	ion of exposure			96	h		
Spec	ies	Leuciscus idus					
Meth	od	EEC C1					
Source	ce	ECHA					
2	benzyl alcohol		100-51-6		202-859-9		
LC50				460	mg/l		
Durat	ion of exposure			96	h		
Spec	ies	Pimephales pro	melas				
Meth	od	EPA OPP 72-1					
Source	ce	ECHA					
3	Reaction products of di-, tri- and tetra-propoxy	lated	9046-10-0		-		



Product no.: 0069065

Current version: 3.0.0, issued: 11.06.2020 Replaced version: 2.0.0, issued: 20.09.2017 Region: GB

propane-1,2-diol with ammonia			
LC50	>	15	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		

ļ	Toxicity to fish (chronic)
Į	No data available

Toxic	Toxicity to Daphnia (acute)						
No	Substance name		CAS no.		EC no.		
1	3-aminomethyl-3,5,5-trimethylcyclohexylamine		2855-13-2		220-666-8		
EC50				23	mg/l		
Dura	ion of exposure			48	h		
Spec		Daphnia magna					
Meth	bd	OECD 202					
Source	ce	ECHA					
2	benzyl alcohol		100-51-6		202-859-9		
EC50				230	mg/l		
Dura	ion of exposure			48	h		
Spec	ies	Daphnia magna					
Meth	bd	OECD 202					
Source	ce	ECHA					
3	Reaction products of di-, tri- and tetra-propoxy	lated	9046-10-0		-		
	propane-1,2-diol with ammonia						
EC50				80	mg/l		
Dura	ion of exposure			48	h		
Spec	ies	Daphnia magna					
Meth	bd	OECD 202					
Source	ce	ECHA					

Toxicity to Daphnia (chronic)							

Toxicity to algae (acute)						
No Substance name	CAS no.		EC no.			
1 3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2		220-666-8			
EC50		37	mg/l			
Duration of exposure		72	h			
Species	Desmodesmus subspicatus					
Method	EEC C3					
Source	ECHA					
2 benzyl alcohol	100-51-6		202-859-9			
EC50		710	mg/l			
Duration of exposure		72	h			
Species	Pseudokirchneriella subcapitata					
Method	OECD 201					
Source	ECHA					
3 Reaction products of di-, tri- and tetra-propoxy	vlated 9046-10-0					
propane-1,2-diol with ammonia						
ErC50		15	mg/l			
Duration of exposure		72	h			
Species	Pseudokirchneriella subcapitata					
Method	OECD 201					
Source	ECHA					

Toxic	Toxicity to algae (chronic)							
No	Substance name	CAS no.	EC no.					
1	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8					
NOE	С	1.5	mg/l					



Trade name: einzA mix Härter LawiDox, für Epoxidharz-Beschichtung Basis 3

Product no.: 0069065

Current version: 3.0.0, issued: 11.06.2020 Replaced version: 2.0.0, issued: 20.09.2017 Region: GB

Duration of exposure	72
Species	Desmodesmus subspicatus
Method	440/2008/EC C.3.
Source	ECHA

Bact	Bacteria toxicity							
No	Substance name	CAS no.		EC no.				
1	benzyl alcohol	100-51-6		202-859-9				
IC50			390	mg/l				
Dura	tion of exposure		24	h				
Species		Nitrosomonas sp.						
Method		ISO 8192						
Sour	ce	ECHA						

12.2 Persistence and degradability

Biod	egradability				
No	Substance name	CAS no.		EC no.	
1	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2		220-666-8	
Value			8	%	
Dura	tion		28	day(s)	
Meth	od	92/69 EEC C.4-A			
Sour	ce	ECHA			
Evalu	uation	not readily biodegradable			
2	Reaction products of di-, tri- and tetra-propoxy	lated 9046-10-0		-	
	propane-1,2-diol with ammonia				
Type		aerobic biodegradation			
Value			0	%	
Dura	tion		28	day(s)	
Meth	od	OECD 301 B		· ·	
Sour	ce	ECHA			

12.3 Bioaccumulative potential

Parti	Partition coefficient: n-octanol/water						
No	Substance name		CAS no.		EC no.		
1	3-aminomethyl-3,5,5-trimethylcyclohexylamine		2855-13-2		220-666-8		
log P	ow			0.99			
Refe	rence temperature			23	°C		
with I	reference to	pH 6.34					
Sour	ce	ECHA					
2	benzyl alcohol		100-51-6		202-859-9		
log P	ow			1.05			
Refe	rence temperature			20	°C		
Sour	ce	ECHA					
3	Reaction products of di-, tri- and tetra-propoxy propane-1,2-diol with ammonia	lated	9046-10-0		-		
log P	OW			1.34			
Refe	rence temperature			25	°C		
Meth	od	OECD 117					

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	The components of this product are not considered to be a vPvB.

12.6 Other adverse effects

No data available.

12.7 Other information

	Other information
	Do not allow to enter drains or water courses.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste code 08 04 09* waste adhesives and sealants 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.



Trade name: einzA mix Härter LawiDox, für Epoxidharz-Beschichtung Basis 3

Product no.: 0069065

Current version: 3.0.0, issued: 11.06.2020 Replaced version: 2.0.0, issued: 20.09.2017 Region: GB

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer. Empty containers must be scrapped or reconditioned.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class 8
Classification code C7
Packing group II
Hazard identification no. 80
UN number UN2735

Proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S.
Technical name 3-aminomethyl-3,5,5-trimethylcyclohexylamine

m-phenylenebis(methylamine)

Tunnel restriction code E Label 8

14.2 Transport IMDG

Class 8
Packing group II
UN number UN2735

Proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S.
Technical name 3-aminomethyl-3,5,5-trimethylcyclohexylamine

m-phenylenebis(methylamine)

EmS F-A, S-B

Label 8

14.3 Transport ICAO-TI / IATA

Class 8
Packing group II
UN number UN2735

Proper shipping name

Amines, liquid, corrosive, n.o.s.

Technical name 3-aminomethyl-3,5,5-trimethylcyclohexylamine

m-phenylenebis(methylamine)

abel 8

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

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

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

SECTION 15: Regulatory information

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

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

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

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

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

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

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

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



Trade name: einzA mix Härter LawiDox, für Epoxidharz-Beschichtung Basis 3

Product no.: 0069065

Current version: 3.0.0, issued: 11.06.2020 Replaced version: 2.0.0, issued: 20.09.2017 Region: GB

This product is not subject to Part 1 or 2 of Annex I.

National regulations

Other national regulations

Adhere to national regulations for proper handling and use of hazardous materials. Use appropriate personal protective equipment.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

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

EUH071 Corrosive to the respiratory tract.
H312 Harmful in contact with skin.
H318 Causes serious eye damage.

H332 Harmful if inhaled.

Department issuing 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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