

Trade name: einzA mix Härter LawiDox, für Epoxidharz-Beschichtung Basis 1**Product no.:** 0069068**Current version :** 4.0.1, issued: 01.11.2021**Replaced version:** 4.0.0, issued: 20.05.2021**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 1**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**

GHS05



GHS07

Signal word

Danger

Hazardous component(s) to be indicated on label:

3-aminomethyl-3,5,5-trimethylcyclohexylamine

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-Chloro-2,3-epoxypropane, Reaction products with 3-Aminomethyl-3,5,5-trimethylcyclohexylamine

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.

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P102	Keep out of reach of children.
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)	Concentration	%
1	benzyl alcohol			
	100-51-6 202-859-9 603-057-00-5 01-2119492630-38	Acute Tox. 4; H302 Acute Tox. 4; H332	>= 25.00 - < 50.00	wt%
2	3-aminomethyl-3,5,5-trimethylcyclohexylamine			
	2855-13-2 220-666-8 612-067-00-9 01-2119514687-32	Acute Tox. 4; H302 Acute Tox. 4; H312 Aquatic Chronic 3; H412 Skin Corr. 1B; H314 Skin Sens. 1; H317	>= 25.00 - < 50.00	wt%
3	4,4'-isopropylidenediphenol, oligomeric reaction products with 1-Chloro-2,3-epoxypropane, Reaction products with 3-Aminomethyl-3,5,5-trimethylcyclohexylamine			
	38294-64-3 - - 01-2119965165-33	Aquatic Chronic 3; H412 Skin Corr. 1B; H314 Skin Sens. 1; H317 Eye Dam. 1; H318	>= 10.00 - < 25.00	wt%
4	m-phenylenebis(methylamine)			
	1477-55-0 216-032-5 - 01-2119480150-50	Acute Tox. 4; H332 Acute Tox. 4; H302 Aquatic Chronic 3; H412 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317 EUH071	>= 10.00 - < 25.00	wt%
5	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia			
	9046-10-0 - - 01-2119557899-12	Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	< 5.00	wt%

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

Acute toxicity estimate (ATE) values

No	oral	dermal	inhalative
1	1230 mg/kg bodyweight		
2	1030 mg/kg bodyweight		

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

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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.

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]/[flattening] 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

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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)

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 no	
	Route of exposure	Exposure time	Effect	Value	
1	benzyl alcohol			100-51-6 202-859-9	
	dermal	Long term (chronic)	systemic	8	mg/kg/day
	dermal	Short term (acut)	systemic	40	mg/kg/day
	inhalative	Long term (chronic)	systemic	22	mg/m ³
2	m-phenylenebis(methylamine)			1477-55-0 216-032-5	
	dermal	Long term (chronic)	systemic	0.33	mg/kg
	inhalative	Long term (chronic)	systemic	1.2	mg/m ³
3	Reaction products of di-, tri- and tetra-propoxylated propane-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/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	benzyl alcohol			100-51-6 202-859-9	
	oral	Long term (chronic)	systemic	4	mg/kg/day
	oral	Short term (acut)	systemic	20	mg/kg/day
	dermal	Long term (chronic)	systemic	4	mg/kg/day
	dermal	Long term (chronic)	systemic	20	mg/kg/day
	inhalative	Long term (chronic)	systemic	5.4	mg/m ³
2	3-aminomethyl-3,5,5-trimethylcyclohexylamine			2855-13-2 220-666-8	
	oral	Long term (chronic)	systemic	0.526	mg/kg/day

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	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 dry weight
	water	marine water sediment	0.527	mg/kg dry weight
	soil	-	0.456	mg/kg dry weight
2	3-aminomethyl-3,5,5-trimethylcyclohexylamine		2855-13-2 220-666-8	
	sewage treatment plant	-	39	mg/L

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	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
3	m-phenylenebis(methylamine)		1477-55-0 216-032-5	
	water	fresh water	0.094	mg/L
	water	marine water	0.0094	mg/L
	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-propoxylated 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 goggles 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	butyl rubber		
Material thickness	>=	0.7	mm
Breakthrough time	>	480	min
Appropriate Material	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/Colour
liquid
yellowish

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Odour			
amine-like			
pH value			
No data available			
Boiling point / boiling range			
Value	205	°C	
Melting point/freezing point			
No data available			
Decomposition temperature			
No data available			
Flash point			
Value	101	°C	
Ignition temperature			
Value	435	°C	
Oxidising properties			
Not applicable			
Flammability			
Not applicable			
Lower explosion limit			
Value	1.3	% vol	
Upper explosion limit			
Value	13	% vol	
Vapour pressure			
Value	0.1	hPa	
Reference temperature	20	°C	
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value	1.02	g/cm ³	
Reference temperature	20	°C	
Solubility in water			
Comments	partially miscible		
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	benzyl alcohol	100-51-6	202-859-9
	log Pow	1.05	
	Reference temperature	20	°C
	Source	ECHA	
2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8
	log Pow	0.99	
	Reference temperature	23	°C
	with reference to	pH 6.34	
	Source	ECHA	
3	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	9046-10-0	-
	log Pow	1.34	
	Reference temperature	25	°C
	Method	OECD 117	
Viscosity			
Value	300	mPa*s	
Reference temperature	20	°C	
Type	dynamic		
Solvent separation test			
Not applicable			
Particle characteristics			

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No data available

9.2 Other information**Other information**

No data available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

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

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	einzA mix Härter LawiDox, für Epoxidharz-Beschichtung Basis 1
ATE (Mixture) Method	1142.39 mg/kg Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

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

Acute dermal toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	einzA mix Härter LawiDox, für Epoxidharz-Beschichtung Basis 1
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 dermal > 2000 mg/kg).

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	benzyl alcohol	100-51-6	202-859-9
LD50		2000	mg/kg bodyweight
Species	rabbit		
2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8
LD50		> 2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		

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Source	ECHA
3	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia
	9046-10-0
	-
LD50	2979 mg/kg bodyweight
Species	rabbit
Method	OECD 402
Source	ECHA

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

No	Product Name
1	einzA mix Härter LawiDox, für Epoxidharz-Beschichtung Basis 1
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	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8
LC50	>	5.01	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Method	OECD 403		
Source	ECHA		

Skin corrosion/irritation

No	Substance name	CAS no.	EC no.
1	benzyl alcohol	100-51-6	202-859-9
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8
Species	rabbit		
Method	Draize method		
Source	ECHA		
Evaluation	corrosive		
3	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	9046-10-0	-
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	corrosive		

Serious eye damage/irritation

No	Substance name	CAS no.	EC no.
1	benzyl alcohol	100-51-6	202-859-9
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	corrosive		
3	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	9046-10-0	-
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	corrosive		

Respiratory or skin sensitisation

No	Substance name	CAS no.	EC no.
1	benzyl alcohol	100-51-6	202-859-9
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		
Source	ECHA		

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Evaluation	non-sensitizing		
2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	sensitizing		

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	benzyl alcohol	100-51-6	202-859-9
Species	Salmonella typhimurium TA98, TA100, TA1535, TA1537		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

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

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	benzyl alcohol	100-51-6	202-859-9
Route of exposure	oral		
		400	mg/kg bw/d
Species	rat		
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 data available			

Aspiration hazard			
No data available			

Delayed and immediate effects as well as chronic effects from short and long-term exposure			
<p>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.</p>			

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	benzyl alcohol	100-51-6	202-859-9
LC50		460	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	EPA OPP 72-1		
Source	ECHA		
2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8

EU safety data sheet



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LC50		110	mg/l
Duration of exposure		96	h
Species	Leuciscus idus		
Method	EEC C1		
Source	ECHA		
3	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	9046-10-0	-
LC50	>	15	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

No	Substance name	CAS no.	EC no.
1	benzyl alcohol	100-51-6	202-859-9
EC50		230	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8
EC50		23	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
3	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	9046-10-0	-
EC50		80	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	benzyl alcohol	100-51-6	202-859-9
NOEC		51	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8
NOEC		3	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	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		
2	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		
3	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	9046-10-0	-
ErC50		15	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		

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Method	OECD 201
Source	ECHA

Toxicity to algae (chronic)			
No	Substance name	CAS no.	EC no.
1	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8
NOEC		1.5	mg/l
Duration of exposure		72	
Species	Desmodesmus subspicatus		
Method	440/2008/EC C.3.		
Source	ECHA		

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

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	benzyl alcohol	100-51-6	202-859-9
Value		92	%
Source	ECHA		
Evaluation	readily biodegradable		
2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8
Value		8	%
Duration		28	day(s)
Method	92/69 EEC C.4-A		
Source	ECHA		
Evaluation	not readily biodegradable		
3	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	9046-10-0	-
Type	aerobic biodegradation		
Value		0	%
Duration		28	day(s)
Method	OECD 301 B		
Source	ECHA		

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	benzyl alcohol	100-51-6	202-859-9
log Pow		1.05	
Reference temperature		20	°C
Source	ECHA		
2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8
log Pow		0.99	
Reference temperature		23	°C
with reference to	pH 6.34		
Source	ECHA		
3	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	9046-10-0	-
log Pow		1.34	
Reference temperature		25	°C
Method	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 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

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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 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.

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 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
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
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
Label	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 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.

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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.
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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

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

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.
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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 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)

EUH071 Corrosive to the respiratory tract.

H312 Harmful in contact with skin.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

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

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Prod-ID 671318