



Safety Data Sheet according to (EC) No 1907/2006 as amended

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LOCTITE ECCOBOND LCM 1000AG-1 12OZ CQ

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V001.0

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

1.1. Product identifier

LOCTITE ECCOBOND LCM 1000AG-1 12OZ CQ
UFI: NS0E-JX6U-U200-YE8D

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

Intended use:
Molding Compound

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA
Henkelstr. 67
40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.com.

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1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no. +49-(0)211-797-3350 for exceptional cases.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin sensitizer	Category 1
H317 May cause an allergic skin reaction.	
Germ cell mutagenicity	Category 2
H341 Suspected of causing genetic defects.	
Chronic hazards to the aquatic environment	Category 3
H412 Harmful to aquatic life with long lasting effects.	

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

Triglycidyl-p-aminophenol

Polyglycidyl ester
Bisphenol A Diglycidyl Ether
Reaction mass of 2-(3-ethylphenyl)oxirane and 2,2'-(1,3-phenylene) dioxirane and 2,2'-(1,4-phenylene)dioxirane
1,6-Naphthalenediol diglycidyl ether
2,2'-[[2-(oxiranylmethoxy)-1,3-phenylene]bis(methylene)]bisoxirane

1H-Imidazole, 2-ethyl-4-methyl-

Signal word:

Warning

Hazard statement:

H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statement:
Prevention**

P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing.

**Precautionary statement:
Response**

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

None if used properly.

Following substances are present in a concentration $\geq$ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration $\geq$ the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
Triglycidyl-p-aminophenol 5026-74-4 225-716-2 01-2119954405-36	1- 5 %	Acute Tox. 4, Oral, H302 Skin Sens. 1A, H317 Muta. 2, H341 STOT RE 2, Oral, H373 Aquatic Chronic 2, H411	dermal:ATE = 4.001 mg/kg	
Polyglycidyl ester 68475-94-5 500-215-4	0,25- 2,5 %	Aquatic Chronic 4, H413 Skin Sens. 1, H317 STOT SE 3, H335 Eye Irrit. 2, H319 Skin Irrit. 2, H315	oral:ATE = 2.500 mg/kg	
Reaction mass of 2-(3-ethylphenyl)oxirane and 2,2'-(1,3-phenylene) dioxirane and 2,2'-(1,4-phenylene)dioxirane -----	0,25- 2,5 %	Aquatic Chronic 2, H411 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Irrit. 2, H319	dermal:ATE = 2.500 mg/kg oral:ATE = 2.500 mg/kg	
Bisphenol A Diglycidyl Ether 1675-54-3 216-823-5 01-2119456619-26	0,25- 2,5 %	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Eye Irrit. 2; H319; C >= 5 % Skin Irrit. 2; H315; C >= 5 %	
1<(>,<)>2-Ethanediamine, polymer with aziridine, N-[3-[(2-ethylhexyl)oxy]-3-oxopropyl] derivs., compds. with polyethylene-polypropylene glycol mono-Bu ether phosphate 398475-96-2	0,25- 2,5 %	Eye Irrit. 2, H319 Aquatic Chronic 2, H411		
1,6-Naphthalenediol diglycidyl ether 27610-48-6 429-960-2	0,1- 1 %	Muta. 2, H341 Acute Tox. 4, Dermal, H312 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	oral:ATE = 2.500 mg/kg	
2,2'-[[2-(oxiranylmethoxy)-1,3-phenylene]bis(methylene)]bisoxirane 13561-08-5 236-951-5	0,1- 1 %	Skin Irrit. 2, Dermal, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Muta. 2, H341		
diethylmethylbenzenediamine 68479-98-1 270-877-4 01-2119486805-25	0,1- 1 %	Acute Tox. 4, Oral, H302 STOT RE 2, H373 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, Dermal, H312	M acute = 1 M chronic = 1	
1H-Imidazole, 2-ethyl-4-methyl- 931-36-2 213-234-5 01-2119980935-21	0,1- 1 %	Acute Tox. 4, Oral, H302 Eye Dam. 1, H318 Skin Irrit. 2, H315 Skin Sens. 1B, H317		

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.
For full text of the H - statements and other abbreviations see section 16 "Other information".

SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

SKIN: Rash, Urticaria.

Prolonged or repeated contact may cause eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

water, carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x) can be released.

Silicon dioxide

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Section 13.

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.
See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Good industrial hygiene practices should be observed.

7.2. Conditions for safe storage, including any incompatibilities

Refer to Technical Data Sheet.

7.3. Specific end use(s)

Molding Compound

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Germany

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Silica, vitreous 60676-86-0		0,3	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Silica, vitreous 60676-86-0			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Silica, vitreous 60676-86-0			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Silicon dioxide 7631-86-9		1	Exposure limit(s):	8 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Silicon dioxide 7631-86-9			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
p-(2,3-Epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline 5026-74-4	aqua (freshwater)		0,008 mg/l				
p-(2,3-Epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline 5026-74-4	aqua (marine water)		0,001 mg/l				
p-(2,3-Epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline 5026-74-4	sewage treatment plant (STP)		10 mg/l				
p-(2,3-Epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline 5026-74-4	sediment (freshwater)				0,101 mg/kg		
p-(2,3-Epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline 5026-74-4	sediment (marine water)				0,01 mg/kg		
p-(2,3-Epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline 5026-74-4	Air						no hazard identified
p-(2,3-Epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline 5026-74-4	Soil				0,015 mg/kg		
p-(2,3-Epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline 5026-74-4	aqua (intermittent releases)		0,042 mg/l				
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	aqua (freshwater)		0,006 mg/l				
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	Freshwater - intermittent		0,018 mg/l				
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	aqua (marine water)		0,001 mg/l				
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	Marine water - intermittent		0,002 mg/l				
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	sewage treatment plant (STP)		10 mg/l				
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	sediment (freshwater)				0,341 mg/kg		
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	sediment (marine water)				0,034 mg/kg		
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	Air						no hazard identified
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	Soil				0,065 mg/kg		
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	oral				11 mg/kg		
Diethylmethylbenzenediamine 68479-98-1	aqua (freshwater)		0,001 mg/l				
Diethylmethylbenzenediamine 68479-98-1	sediment (freshwater)				0,029 mg/kg		
Diethylmethylbenzenediamine 68479-98-1	aqua (marine water)		0 mg/l				
Diethylmethylbenzenediamine 68479-98-1	sediment (marine water)				0,0029 mg/kg		
Diethylmethylbenzenediamine 68479-98-1	Soil				0,0056 mg/kg		
Diethylmethylbenzenediamine 68479-98-1	sewage treatment plant (STP)		17 mg/l				
Diethylmethylbenzenediamine 68479-98-1	aqua (intermittent releases)		0,005 mg/l				
Diethylmethylbenzenediamine 68479-98-1	oral				2 mg/kg		
2-Ethyl-4-methylimidazole 931-36-2	aqua (freshwater)		0,0681 mg/l				
2-Ethyl-4-methylimidazole 931-36-2	aqua (marine water)		0,00681 mg/l				

2-Ethyl-4-methylimidazole 931-36-2	aqua (intermittent releases)		0,681 mg/l				
2-Ethyl-4-methylimidazole 931-36-2	sewage treatment plant (STP)		65 mg/l				
2-Ethyl-4-methylimidazole 931-36-2	sediment (freshwater)				34,9 mg/kg		
2-Ethyl-4-methylimidazole 931-36-2	sediment (marine water)				3,49 mg/kg		
2-Ethyl-4-methylimidazole 931-36-2	Soil				6,91 mg/kg		

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
p-(2,3-Epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline 5026-74-4	Workers	inhalation	Long term exposure - systemic effects		0,35 mg/m3	no hazard identified
p-(2,3-Epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline 5026-74-4	Workers	dermal	Long term exposure - systemic effects		0,1 mg/kg	no hazard identified
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	Workers	inhalation	Long term exposure - systemic effects		4,93 mg/m3	no hazard identified
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	Workers	dermal	Long term exposure - systemic effects		0,75 mg/kg	no hazard identified
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	General population	inhalation	Long term exposure - systemic effects		0,87 mg/m3	no hazard identified
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	General population	dermal	Long term exposure - systemic effects		0,0893 mg/kg	no hazard identified
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	General population	oral	Long term exposure - systemic effects		0,5 mg/kg	no hazard identified
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	Workers	Inhalation	Long term exposure - local effects			no hazard identified
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	Workers	Inhalation	Acute/short term exposure - local effects			no hazard identified
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	Workers	dermal	Long term exposure - local effects			no hazard identified
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	Workers	dermal	Acute/short term exposure - local effects			no hazard identified
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	General population	Inhalation	Long term exposure - local effects			no hazard identified
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	General population	Inhalation	Acute/short term exposure - local effects			no hazard identified
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	General population	dermal	Long term exposure - local effects			no hazard identified
Biphenyl-4-(2,3-epoxypropoxy)propane 1675-54-3	General population	dermal	Acute/short term exposure - local effects			no hazard identified
Diethylmethylbenzenediamine 68479-98-1	Workers	inhalation	Long term exposure - systemic effects		0,13 mg/m3	
Diethylmethylbenzenediamine 68479-98-1	Workers	dermal	Long term exposure - systemic effects		1 mg/kg	
Diethylmethylbenzenediamine 68479-98-1	General population	oral	Long term exposure - systemic effects		0,1 mg/kg	
Diethylmethylbenzenediamine 68479-98-1	General population	dermal	Long term exposure - systemic effects		1 mg/kg	
Diethylmethylbenzenediamine 68479-98-1	General population	inhalation	Long term exposure - systemic effects		0,1 mg/m3	
2-Ethyl-4-methylimidazole 931-36-2	Workers	inhalation	Long term exposure - systemic effects		2,8 mg/m3	
2-Ethyl-4-methylimidazole 931-36-2	Workers	dermal	Long term exposure - local effects		0,289 mg/cm2	
2-Ethyl-4-methylimidazole 931-36-2	Workers	dermal	Long term exposure -		1,6 mg/kg	

			systemic effects			
2-Ethyl-4-methylimidazole 931-36-2	General population	inhalation	Long term exposure - systemic effects		0,7 mg/m3	
2-Ethyl-4-methylimidazole 931-36-2	General population	dermal	Long term exposure - systemic effects		0,8 mg/kg	
2-Ethyl-4-methylimidazole 931-36-2	General population	dermal	Long term exposure - local effects		0,289 mg/cm2	
2-Ethyl-4-methylimidazole 931-36-2	General population	oral	Long term exposure - systemic effects		0,4 mg/kg	

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A (EN 14387)

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.

Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Delivery form

liquid

Colour

Black

Odor

neutral

Physical state

liquid

Melting point

Not applicable, Product is a liquid

Initial boiling point

> 200 °C (> 392 °F)

Flammability	Not applicable The product is not flammable.
Explosive limits	Not applicable, The product is not flammable.
Flash point	> 93 °C (> 199.4 °F)
Auto-ignition temperature	Not applicable, The product is not flammable.
Decomposition temperature	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use
pH (20 °C (68 °F); Conc.: 100 % product)	6,5
Viscosity (kinematic)	> 0,0 mm ² /s ;. Internal Henkel specification
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Negligible
Partition coefficient: n-octanol/water	Not applicable
Vapour pressure	Mixture < 0,1 hPa
Density (20 °C (68 °F))	1,87 - 1,93 g/cm ³ HST-US S01A; Specific Gravity
Relative vapour density:	Not applicable, Heavier than air
Particle characteristics	Not applicable Product is a liquid

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with oxidants, acids and lyes

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.
Excessive heat.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

None if used for intended purpose.

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

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Triglycidyl-p-aminophenol 5026-74-4	LD50	1.037 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Polyglycidyl ester 68475-94-5	LD50	> 2.000 mg/kg	rat	OECD Guideline 420 (Acute Oral Toxicity)
Polyglycidyl ester 68475-94-5	Acute toxicity estimate (ATE)	2.500 mg/kg		Expert judgement
Reaction mass of 2-(3-ethylphenyl)oxirane and 2,2'-(1,3-phenylene)dioxirane and 2,2'-(1,4-phenylene)dioxirane -----	LD50	> 2.000 mg/kg	rat	OECD Guideline 420 (Acute Oral Toxicity)
Reaction mass of 2-(3-ethylphenyl)oxirane and 2,2'-(1,3-phenylene)dioxirane and 2,2'-(1,4-phenylene)dioxirane -----	Acute toxicity estimate (ATE)	2.500 mg/kg		Expert judgement
Bisphenol A Diglycidyl Ether 1675-54-3	LD50	> 2.000 mg/kg	rat	OECD Guideline 420 (Acute Oral Toxicity)
1<(>,<)>2-Ethanediamine, polymer with aziridine, N-[3-[(2-ethylhexyl)oxy]-3-oxopropyl] derivs., compds. with polyethylene-polypropylene glycol mono-Bu ether phosphate 398475-96-2	LD50	> 5.000 mg/kg	rat	not specified
1,6-Naphthalenediol diglycidyl ether 27610-48-6	LD50	> 2.000 mg/kg	rat	EPA OTS 798.1175 (Acute Oral Toxicity)
1,6-Naphthalenediol diglycidyl ether 27610-48-6	Acute toxicity estimate (ATE)	2.500 mg/kg		Expert judgement
2,2'-[[2-(oxiranylmethoxy)-1,3-phenylene]bis(methylene)]bisoxirane 13561-08-5	LD50	4.240 mg/kg	rat	not specified
diethylmethylbenzenediamine 68479-98-1	LD50	738 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
1H-imidazole, 2-ethyl-4-methyl- 931-36-2	LD50	622 mg/kg	rat	not specified

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Triglycidyl-p-aminophenol 5026-74-4	LD0	> 4.000 mg/kg	rat	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
Triglycidyl-p-aminophenol 5026-74-4	Acute toxicity estimate (ATE)	4.001 mg/kg		Expert judgement
Polyglycidyl ester 68475-94-5	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Reaction mass of 2-(3-ethylphenyl)oxirane and 2,2'-(1,3-phenylene)dioxirane and 2,2'-(1,4-phenylene)dioxirane -----	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Reaction mass of 2-(3-ethylphenyl)oxirane and 2,2'-(1,3-phenylene)dioxirane and 2,2'-(1,4-phenylene)dioxirane -----	Acute toxicity estimate (ATE)	2.500 mg/kg		Expert judgement
Bisphenol A Diglycidyl Ether 1675-54-3	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
1,6-Naphthalenediol diglycidyl ether 27610-48-6	LD50	> 1.000 - < 2.000 mg/kg	rat	EPA OTS 798.1100 (Acute Dermal Toxicity)

Acute inhalative toxicity:

No data available.

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Triglycidyl-p-aminophenol 5026-74-4	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Polyglycidyl ester 68475-94-5	irritating		rabbit	not specified
Reaction mass of 2-(3-ethylphenyl)oxirane and 2,2'-(1,3-phenylene)dioxirane and 2,2'-(1,4-phenylene)dioxirane -----	irritating or corrosive	15 min	Human, EpiSkinTM (SM), Reconstructed Human Epidermis (RHE)	EU Method B.46 (In vitro skin irrit.: reconstructed human epidermis model test)
Reaction mass of 2-(3-ethylphenyl)oxirane and 2,2'-(1,3-phenylene)dioxirane and 2,2'-(1,4-phenylene)dioxirane -----	not corrosive	240 min	Human, EpiSkinTM (SM), Reconstructed Human Epidermis (RHE)	OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method)
Bisphenol A Diglycidyl Ether 1675-54-3	moderately irritating	24 h	rabbit	Draize Test
1<(>,<)>2-Ethanediamine, polymer with aziridine, N-[3-[(2-ethylhexyl)oxy]-3-oxopropyl] derivs., compds. with polyethylene-polypropylene glycol mono-Bu ether phosphate 398475-96-2	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
1,6-Naphthalenediol diglycidyl ether 27610-48-6	irritating		rabbit	EPA OTS 798.4470 (Acute Dermal Irritation)
diethylmethylbenzenedia mine 68479-98-1	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
1H-Imidazole, 2-ethyl-4-methyl- 931-36-2	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Triglycidyl-p-aminophenol 5026-74-4	slightly irritating	30 s	rabbit	EPA OPP 81-4 (Acute Eye Irritation)
Polyglycidyl ester 68475-94-5	irritating		rabbit	not specified
Reaction mass of 2-(3-ethylphenyl)oxirane and 2,2'-(1,3-phenylene)dioxirane and 2,2'-(1,4-phenylene)dioxirane -----	irritating			expert judgment
Bisphenol A Diglycidyl Ether 1675-54-3	slightly irritating		rabbit	Draize Test
1(>,<)>2-Ethanediamine, polymer with aziridine, N-[3-[(2-ethylhexyl)oxy]-3-oxopropyl] derivs., compds. with polyethylene-polypropylene glycol mono-Bu ether phosphate 398475-96-2	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
1,6-Naphthalenediol diglycidyl ether 27610-48-6	irritating		rabbit	EPA OTS 798.4500 (Acute Eye Irritation)
1H-Imidazole, 2-ethyl-4-methyl- 931-36-2	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Triglycidyl-p-aminophenol 5026-74-4	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Polyglycidyl ester 68475-94-5	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Reaction mass of 2-(3-ethylphenyl)oxirane and 2,2'-(1,3-phenylene)dioxirane and 2,2'-(1,4-phenylene)dioxirane -----	Sub-Category 1A (sensitising)	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Bisphenol A Diglycidyl Ether 1675-54-3	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
1,6-Naphthalenediol diglycidyl ether 27610-48-6	sensitising	Buehler test	guinea pig	EPA OTS 798.4100 (Skin Sensitisation)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Triglycidyl-p-aminophenol 5026-74-4	positive	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Triglycidyl-p-aminophenol 5026-74-4	positive	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Triglycidyl-p-aminophenol 5026-74-4	positive	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Bisphenol A Diglycidyl Ether 1675-54-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EU Method B.13/14 (Mutagenicity)
Bisphenol A Diglycidyl Ether 1675-54-3	negative with metabolic activation	mammalian cell gene mutation assay	with and without		not specified
1,6-Naphthalenediol diglycidyl ether 27610-48-6	negative	in vitro mammalian chromosome aberration test	with		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
1,6-Naphthalenediol diglycidyl ether 27610-48-6	positive	in vitro mammalian chromosome aberration test	without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Bisphenol A Diglycidyl Ether 1675-54-3	not carcinogenic	oral: gavage	24 m daily	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Bisphenol A Diglycidyl Ether 1675-54-3	not carcinogenic	dermal	2 y 3 times/w	mouse	male	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Bisphenol A Diglycidyl Ether 1675-54-3	NOAEL P >= 50 mg/kg NOAEL F1 >= 750 mg/kg NOAEL F2 >= 750 mg/kg	Two generation study	oral: gavage	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)

STOT-single exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Assessment	Route of exposure	Target Organs	Remarks
Polyglycidyl ester 68475-94-5	Category 3 with respiratory tract irritation.			

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Triglycidyl-p-aminophenol 5026-74-4	NOAEL 50 mg/kg	oral: gavage	28 d daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
Bisphenol A Diglycidyl Ether 1675-54-3	NOAEL 50 mg/kg	oral: gavage	14 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Bisphenol A Diglycidyl Ether 1675-54-3	NOAEL 100 mg/kg	dermal	13 w 3 times/w	mouse	OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
diethylmethylbenzenedia mine 68479-98-1	NOAEL 8 mg/kg	oral: feed	90 days daily	rat	EU Method B.26 (Sub- Chronic Oral Toxicity Test: Repeated Dose 90- Day Oral Toxicity Study in Rodents)

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information**General ecological information:**

Do not empty into drains / surface water / ground water.

12.1. Toxicity**Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Triglycidyl-p-aminophenol 5026-74-4	LC50	4,2 mg/l	96 h	Cyprinus carpio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Polyglycidyl ester 68475-94-5	LL50	Toxicity > Water solubility	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Reaction mass of 2-(3- ethylphenyl)oxirane and 2,2'- (1,3-phenylene) dioxirane and 2,2'-(1,4-phenylene)dioxirane -----	LC50	2,4 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Bisphenol A Diglycidyl Ether 1675-54-3	LC50	1,2 mg/l	96 h	Oncorhynchus mykiss	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians)
1<(>,<)>2-Ethanediamine, polymer with aziridine, N-[3- [(2-ethylhexyl)oxy]-3- oxopropyl] derivs., compds. with polyethylene- polypropylene glycol mono- Bu ether phosphate 398475-96-2	LC50	8 mg/l	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
diethylmethylbenzenediamine 68479-98-1	LC50	> 106 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
1H-Imidazole, 2-ethyl-4- methyl- 931-36-2	LC50	68,1 mg/l	96 h	Leuciscus idus	DIN 38412-15

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Triglycidyl-p-aminophenol 5026-74-4	EC50	18 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Polyglycidyl ester 68475-94-5	EL50	Toxicity > Water solubility	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Reaction mass of 2-(3- ethylphenyl)oxirane and 2,2'- (1,3-phenylene) dioxirane and 2,2'-(1,4-phenylene)dioxirane -----	EC50	1,2 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Bisphenol A Diglycidyl Ether 1675-54-3	EC50	2,7 mg/l	48 h	Daphnia magna	other guideline:
diethylmethylbenzenediamine 68479-98-1	EC50	0,5 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1H-Imidazole, 2-ethyl-4- methyl- 931-36-2	EC50	297,3 mg/l	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Triglycidyl-p-aminophenol 5026-74-4	NOEC	4,8 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Bisphenol A Diglycidyl Ether 1675-54-3	NOEC	0,3 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Triglycidyl-p-aminophenol 5026-74-4	EC50	13 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Triglycidyl-p-aminophenol 5026-74-4	NOEC	4,2 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Polyglycidyl ester 68475-94-5	EL50	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Polyglycidyl ester 68475-94-5	NOELR	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Reaction mass of 2-(3- ethylphenyl)oxirane and 2,2'- (1,3-phenylene) dioxirane and 2,2'-(1,4-phenylene)dioxirane -----	EC50	21 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Reaction mass of 2-(3- ethylphenyl)oxirane and 2,2'- (1,3-phenylene) dioxirane and 2,2'-(1,4-phenylene)dioxirane -----	NOEC	3,2 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Bisphenol A Diglycidyl Ether 1675-54-3	EC50	> 11 mg/l	72 h	Scenedesmus capricornutum	other guideline:
Bisphenol A Diglycidyl Ether 1675-54-3	NOEC	4,2 mg/l	72 h	Scenedesmus capricornutum	other guideline:
1<(>,<)>2-Ethanediamine, polymer with aziridine, N-[3- [(2-ethylhexyl)oxy]-3- oxopropyl] derivs., compds. with polyethylene- polypropylene glycol mono- Bu ether phosphate 398475-96-2	EC50	> 1 mg/l	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
1H-Imidazole, 2-ethyl-4- methyl- 931-36-2	EC50	124,8 mg/l	72 h	Desmodesmus subspicatus	DIN 38412-09
1H-Imidazole, 2-ethyl-4- methyl- 931-36-2	EC10	56,7 mg/l	72 h	Desmodesmus subspicatus	DIN 38412-09

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Triglycidyl-p-aminophenol 5026-74-4	EC10	> 10 mg/l	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)
Reaction mass of 2-(3- ethylphenyl)oxirane and 2,2'- (1,3-phenylene) dioxirane and 2,2'-(1,4-phenylene)dioxirane -----	EC50	160 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Bisphenol A Diglycidyl Ether 1675-54-3	IC50	> 100 mg/l	3 h	activated sludge, industrial	other guideline:
diethylmethylbenzenediamine 68479-98-1	EC10	170 mg/l	24 h		not specified

12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Triglycidyl-p-aminophenol 5026-74-4	not readily biodegradable.	aerobic	> 0 - 10 %	29 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Polyglycidyl ester 68475-94-5	not readily biodegradable.	aerobic	28 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Reaction mass of 2-(3-ethylphenyl)oxirane and 2,2'-(1,3-phenylene) dioxirane and 2,2'-(1,4-phenylene)dioxirane -----	not readily biodegradable.	aerobic	16 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Bisphenol A Diglycidyl Ether 1675-54-3	not inherently biodegradable	not specified	12 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Bisphenol A Diglycidyl Ether 1675-54-3	not readily biodegradable.	aerobic	5 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
1<(>,<)>2-Ethanediamine, polymer with aziridine, N-[3-[(2-ethylhexyl)oxy]-3-oxopropyl] derivs., compds. with polyethylene-polypropylene glycol mono-Bu ether phosphate 398475-96-2	not readily biodegradable.	aerobic	> 0 - < 60 %	28 d	OECD 301 A - F
diethylmethylbenzenediamine 68479-98-1		aerobic	0 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
1H-Imidazole, 2-ethyl-4-methyl- 931-36-2	readily biodegradable	aerobic	86 %	28 d	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
Triglycidyl-p-aminophenol 5026-74-4	0,87	25 °C	QSAR (Quantitative Structure Activity Relationship)
Polyglycidyl ester 68475-94-5	> 6,5	20 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Reaction mass of 2-(3-ethylphenyl)oxirane and 2,2'-(1,3-phenylene) dioxirane and 2,2'-(1,4-phenylene)dioxirane -----	1,36 - 2,68		OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Bisphenol A Diglycidyl Ether 1675-54-3	> 2,64 - 3,78	25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
1H-Imidazole, 2-ethyl-4-methyl- 931-36-2	1,13	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	PBT / vPvB
Triglycidyl-p-aminophenol 5026-74-4	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Bisphenol A Diglycidyl Ether 1675-54-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
diethylmethylbenzenediamine 68479-98-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
1H-Imidazole, 2-ethyl-4-methyl- 931-36-2	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Do not empty into drains / surface water / ground water.

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

08 04 09* waste adhesives and sealants containing organic solvents and other dangerous substances

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

- 14.1. UN number or ID number**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.2. UN proper shipping name**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.3. Transport hazard class(es)**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.4. Packing group**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.5. Environmental hazards**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.6. Special precautions for user**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.7. Maritime transport in bulk according to IMO instruments**
not applicable

SECTION 15: Regulatory information

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 2024/590):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable
VOC content (2010/75/EC)	< 5 %

National regulations/information (Germany):

WGK:	WGK 2: significantly water endangering (Ordinance on facilities for handling substances that are hazardous to water (AwSV)) Classification according to AwSV, Annex 1 (5.2)
Storage class according to TRGS 510:	10

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H302 Harmful if swallowed.
H312 Harmful 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.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H373 May cause 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.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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