

Safety Data Sheet

Hagmans Golvfärg EP-V komp A

Replaces date: 13/01/2023

Revision date: 04/10/2024

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

1.1. Product identifier

Trade name: Hagmans Golvfärg EP-V komp A

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

Recommended uses: Paint two component system Epoxy.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Hagmans Nordic AB
Address: Box 112
Zip code: 511 10
City: Fritsla
Country: SWEDEN
Email: info@hagmansnordic.com
Phone: +46(0)320-18900
Homepage: www.hagmans.com

1.4. Emergency Telephone Number

Members of the public: 111 (NHS 111 (Scotland: NHS 24)).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Skin Irrit. 2;H315
Skin Sens. 1;H317
Eye Irrit. 2;H319
Aquatic Chronic 2;H411

Most serious harmful effects: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
Toxic to aquatic life with long lasting effects.

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2.2. Label elements

Pictograms



Signal word:

Warning

Contains

Substance:

bis-[4-(2,3-epoxipropoxy)phenyl]propane; Bisphenol F diglycidyl ether, reaction mass of isomers; p-tert-butylphenyl 1-(2,3-epoxy)propyl ether; 2,4,7,9-tetramethyldec-5-yne-4,7-diol; reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1);

Hazard statements

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

H411

Toxic to aquatic life with long lasting effects.

Precautionary statements

P102

Keep out of reach of children.

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P302/352

IF ON SKIN: Wash with plenty of soap and water.

P305+351+338

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 or doctor/physician.

P501

Dispose of contents/container in accordance with local regulations.

Supplemental information

EUH205

Contains epoxy constituents. May produce an allergic reaction.

Contains biocidal products: C(M)IT/MIT (3:1) May produce an allergic reaction.

VOC:

This product contains a maximum of 50 g VOC/L. The limit value is 140 g VOC/L (cat. A/j)

2.3. Other hazards

The product does not contain any PBT or vPvB substances.

The substance/mixture contains no components that are considered to have endocrine-disrupting properties according to REACH art. 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No./ EC No./ UK-REACH Reg. No.	Concentration	Notes	CLP-classification
bis-[4-(2,3-epoxipropoxy)phenyl] propane	1675-54-3 216-823-5 01- 2119456619-26	30 - 50 %		Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Irrit. 2;H319 Aquatic Chronic 2;H411 C ≥ 5%: Skin Irrit. 2; H315 C ≥ 5%: Eye Irrit. 2; H319
Bisphenol F diglycidyl ether, reaction mass of isomers	701-263-0 01-2119454392-40	15 - 25 %		Skin Irrit. 2;H315 Skin Sens. 1A;H317 Aquatic Chronic 2;H411
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether	3101-60-8 221-453-2 012119959496-20	5 - 10 %		Skin Sens. 1;H317 Aquatic Chronic 2;H411
benzyl alcohol	100-51-6 202-859-9 01-2119492630-38	< 3 %		Acute Tox. 4;H302 Eye Irrit. 2;H319 Acute Tox. 4;H332 LC50 (dust/mist) (Acute toxicity - inhalation): > 4.178 mg/l LD50 (Acute toxicity - oral): 1230 mg/kg bw
Ethanediol	107-21-1 203-473-3 01-2119456816-28	< 2 %		Acute Tox. 4;H302 STOT RE 2;H373 LD50 (Acute toxicity - oral): 7712 mg/kg bw
(2-methoxymethylethoxy) propanol	34590-94-8 252-104-2 01-2119450011-60	< 0.6 %		
2,4,7,9-tetramethyldec-5-yne-4,7-diol	126-86-3 204-809-1 01-2119954390-39	< 0.2 %		Skin Sens. 1B;H317 Eye Dam. 1;H318 Aquatic Chronic 3;H412
2-butoxyethanol	111-76-2 203-905-0 01-2119475108-36	< 0.2 %		Acute Tox. 4;H302 Skin Irrit. 2;H315 Eye Irrit. 2;H319 Acute Tox. 3;H331 ATE (Acute toxicity - oral): 1200 mg/kg bw ATE (vapours) (Acute toxicity - inhalation): 3 mg/l
Bronopol	52-51-7 200-143-0	< 0.04 %		Acute Tox. 3;H301 Acute Tox. 4;H312 Skin Irrit. 2;H315 Eye Dam. 1;H318 Acute Tox. 3;H331 STOT SE 3;H335 Aquatic Acute 1;H400 Aquatic Chronic 2;H411 M (acute): 10
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9 611-341-5 01-2120764691-48	< 0.0015 %		Acute Tox. 3;H301 Acute Tox. 2;H310 Skin Corr. 1B;H314 Skin Sens. 1A;H317 Eye Dam. 1;H318 Acute Tox. 2;H330 Aquatic Acute 1;H400 Aquatic Chronic 1;H410 C ≥ 0.0015%: Skin Sens. 1A;H317 C ≥ 0.6%: Eye Dam. 1;H318 C ≥ 0.6%: Skin Corr. 1C;H314 0.06% ≤ C < 0.6%: Eye Irrit. 2;H319 0.06% ≤ C < 0.6%: Skin Irrit. 2;H315 LD50 (Acute toxicity - dermal): 660 mg/kg bw LD50 (Acute toxicity - oral): 457 mg/kg bw ATE (dust/mist) (Acute toxicity - inhalation): 0.31 mg/l M (acute): 100 M (chronic): 100

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Please see section 16 for the full text of H- / EUH-phrases.

Ingredient comments: Bisphenol F diglycidyl ether, reaction mass of isomers, EC: 701-263-0 can also be called Bisphenol F-Epoxy resin

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Seek fresh air.

Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Do not induce vomiting. Seek medical advice in case of discomfort.

Skin contact: Immediately remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.

Eye contact: Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.

General: When obtaining medical advice, show the safety data sheet or label.

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

Irritating to skin - may cause reddening. May cause eye irritation. May cause an allergic skin reaction.

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

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: The product is not directly flammable. Choose extinguishing agents based on the surrounding fire.

Unsuitable extinguishing media: Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Not flammable, but combustible.

5.3. Advice for firefighters

Wear respiratory protective equipment. Send contaminated extinguishing water for destruction. Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Keep unnecessary personnel away. Wear suitable protective clothing. Wear safety goggles if there is a risk of eye splash.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water. Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent, non-combustible material and transfer to suitable waste containers.

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6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

When mixing two components, consult the safety data sheets for both components.

Do not eat, drink or smoke during work. Wash hands before breaks, before using restroom facilities, and at the end of work.

7.2. Conditions for safe storage, including any incompatibilities

Store in a dry, cool, well-ventilated area. Store frost-free. Keep in tightly closed original packaging. Store safely and keep out of reach of children.

7.3. Specific end use(s)

No special uses in addition to identified uses in 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m ³	fiber/cm ³	Remarks	Comments
Ethanediol	8h		10		Particulate	Sk
Ethanediol	8h	20	52		vapour	Sk
Ethanediol	15m				Particulate	Sk
Ethanediol	15m	40	104		vapour	Sk
(2-methoxymethyl ethoxy)propanol	8h	50	308			Sk
(2-methoxymethyl ethoxy)propanol	15m					Sk

Sk = Can be absorbed through the skin.

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PNEC

bis-[4-(2,3-epoxipropoxy)phenyl]propane, cas-no 1675-54-3				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (intermittent releases (marine water))	1,8 µg/l			ECHA
PNEC aqua (freshwater)	6 µg/l			ECHA
PNEC aqua (marine water)	600 ng/l			ECHA
PNEC STP (wastewater-treatment facilities)	10 mg/l			ECHA
PNEC sediment (freshwater)	341 mg/kg dw			ECHA
PNEC sediment (marine water)	34,1 mg/kg dw			ECHA
PNEC aqua (intermittent releases (fresh water))	18 mg/l			ECHA
Bisphenol F diglycidyl ether, reaction mass of isomers, EC-no 701-263-0				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	0,003 mg/l			
PNEC aqua (marine water)	0,0003 mg/l			
PNEC STP (wastewater-treatment facilities)	10 mg/l			
PNEC sediment (freshwater)	0,294 mg/kg dw			
PNEC sediment (marine water)	0,0294 mg/kg dw			
PNEC soil	0,237 mg/kg dw			
PNEC aqua (intermittent releases)	0,0254 mg/l			
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether, cas-no 3101-60-8				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	7,5 µg/l			
PNEC aqua (marine water)	0,75 µg/l			
PNEC STP (wastewater-treatment facilities)	100 mg/l			
PNEC sediment (freshwater)	33,54 mg/kg dw			
PNEC sediment (marine water)	3,354 mg/kg dw			
PNEC soil	11,4 mg/kg dw			
benzyl alcohol, cas-no 100-51-6				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	1 mg/l			
PNEC aqua (marine water)	0,1 mg/l			
PNEC aqua (intermittent releases)	2,3 mg/l			
PNEC STP (wastewater-treatment facilities)	39 mg/l			
PNEC sediment (freshwater)	5,27 mg/kg			
PNEC sediment (marine water)	0,527 mg/kg			
PNEC soil	0,456 mg/kg			

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Ethenediol, cas-no 107-21-1				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	10 mg/l			
PNEC sediment (freshwater)	37 mg/kg dw			
PNEC aqua (marine water)	1 mg/l			
PNEC sediment (marine water)	3,7 mg/kg dw			
PNEC STP (wastewater-treatment facilities)	199,5 mg/l			
PNEC soil	1,53 mg/l			
PNEC aqua (intermittent releases)	10 mg/l			
2,4,7,9-tetramethyldec-5-yne-4,7-diol, cas-no 126-86-3				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (marine water)	0,004 mg/l			
PNEC aqua (freshwater)	0,04 mg/l			
PNEC sediment (marine water)	0,032 mg/kg			
PNEC sediment (freshwater)	0,32 mg/kg			
PNEC STP (wastewater-treatment facilities)	7 mg/l			
PNEC soil	0,028 mg/kg			
Bronopol , cas-no 52-51-7				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	0,01 mg/l			
PNEC aqua (marine water)	0,0008 mg/l			
PNEC STP (wastewater-treatment facilities)	0,43 mg/l			
PNEC sediment (freshwater)	0,041 mg/kg			
PNEC sediment (marine water)	0,00328 mg/kg			
PNEC soil	0,5 mg/kg			
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), cas-no 55965-84-9				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	3,39 µg/l			
PNEC aqua (intermittent releases (fresh water))	3,39 µg/l			
PNEC aqua (marine water)	3,39 µg/l			
PNEC aqua (intermittent releases (marine water))	3,39 µg/l			
PNEC STP (wastewater-treatment facilities)	230 µg/l			
PNEC sediment (marine water)	27 µg/kg dw			
PNEC sediment (freshwater)	27 µg/kg dw			
PNEC soil	10 µg/kg dw			

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DNEL - workers

bis-[4-(2,3-epoxipropoxy)phenyl]propane, cas-no 1675-54-3

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (acute/short-term exposure - systemic effects)	8,3 mg/kg bw/day				
Inhalation DNEL (acute/short-term exposure - systemic effects)	12,3 mg/m³				
Dermal DNEL (long-term exposure - systemic effects)	8,3 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	12,3 mg/m³				

Bisphenol F diglycidyl ether, reaction mass of isomers, EC-no 701-263-0

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (acute/short-term exposure - local effects)	8,3 µg/cm²				
Dermal DNEL (long-term exposure - systemic effects)	104,15 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	29,39 mg/m³				

benzyl alcohol, cas-no 100-51-6

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	22 mg/m³				
Dermal DNEL (long-term exposure - systemic effects)	8 mg/kg bw/day				
Inhalation DNEL (acute/short-term exposure - systemic effects)	110 mg/m³				

Ethanediol, cas-no 107-21-1

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	106 mg/kg bw				
Inhalation DNEL (acute/short-term exposure - systemic effects)	35 mg/m³				
Inhalation DNEL (long-term exposure - local effects)	35 mg/m³				

2,4,7,9-tetramethyldec-5-yne-4,7-diol, cas-no 126-86-3

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
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Dermal DNEL (acute/short-term exposure - systemic effects)	1,5 mg/kg				
Dermal DNEL (long-term exposure - systemic effects)	0,5 mg/kg				
Inhalation DNEL (acute/short-term exposure - systemic effects)	5,28 mg/m ³				
Inhalation DNEL (long-term exposure - systemic effects)	1,76 mg/m ³				
Bronopol , cas-no 52-51-7					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - local effects)	0.013 mg/kg bw/day				
Inhalation DNEL (long-term exposure - local effects)	4,2 mg/m ³				
Inhalation DNEL (long-term exposure - systemic effects)	4,1 mg/m ³				
Dermal DNEL (long-term exposure - systemic effects)	2,3 mg/kg bw/day				
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), cas-no 55965-84-9					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - local effects)	20 µg/m ³				
Inhalation DNEL (acute/short-term exposure - local effects)	40 µg/m ³				

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DNEL - general population

benzyl alcohol, cas-no 100-51-6					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (acute/short-term exposure - systemic effects)	27 mg/m ³				
Dermal DNEL (long-term exposure - systemic effects)	4 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	5,4 mg/m ³				
Dermal DNEL (acute/short-term exposure - systemic effects)	20 mg/kg bw/day				
Ethanediol, cas-no 107-21-1					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	53 mg/kg bw				
Inhalation DNEL (acute/short-term exposure - systemic effects)	7 mg/m ³				
Inhalation DNEL (long-term exposure - local effects)	7 mg/m ³				
Bronopol , cas-no 52-51-7					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (acute/short-term exposure - systemic effects)	4,2 ng/kg bw/day				
Dermal DNEL (acute/short-term exposure - local effects)	0,008 mg/kg bw/day				
Inhalation DNEL (acute/short-term exposure - systemic effects)	3,7 mg/m ³				
Inhalation DNEL (acute/short-term exposure - local effects)	1,3 mg/m ³				
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), cas-no 55965-84-9					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - local effects)	20 µg/m ³				
Inhalation DNEL (acute/short-term exposure - local effects)	40 µg/m ³				

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Oral DNEL (long-term exposure - systemic effects)	90 µg/kg bw/day				
Oral DNEL (acute/short-term exposure - systemic effects)	110 µg/kg bw/day				

8.2. Exposure controls

Appropriate engineering controls:

Avoid contact with skin and eyes. Running water and eye wash equipment should be available.
Provide good ventilation. Wash hands before breaks, before using restroom facilities, and at the end of work.

Personal protective equipment, eye/face protection: Wear safety goggles if there is a risk of eye splash.

Personal protective equipment, skin protection: Wear suitable protective clothing.

Personal protective equipment, hand protection: In the event of direct skin contact, wear protective gloves: Type of material: Neoprene rubber/ Nitrile rubber.

Personal protective equipment, respiratory protection: Not required.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Liquid
Colour	White
Odour	Characteristic Epoxy smell.
Solubility	Miscible with the following: Water.

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Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	
Freezing point	~ 0 °C	Water
Initial boiling point and boiling range	~ 100 °C	Water
Flammability (solid, gas)		Not applicable. Water
Flammability limits		Not applicable.
Explosion limits		Not applicable.
Flash Point	> 150 °C	
Auto-ignition temperature		Not applicable.
Decomposition temperature:	No data	
pH (solution for use)	8 - 9	
pH (concentrate)	No data	
Kinematic viscosity	No data	
Viscosity	No data	
Partition coefficient n-octanol/water	No data	
Vapour pressure	No data	
Density	1000 - 1100 kg/m ³	
Relative density	No data	
Relative vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

9.2. Other information

Parameter	Value/unit	Remarks
Evaporation rate		Not applicable.
Explosive properties		Non-explosive
Oxidising properties		Non-oxidising.

SECTION 10: Stability and reactivity

10.1. Reactivity

No known data.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Store frost-free.

10.5. Incompatible materials

Strong acids/ Strong alkalis/ Oxidisers.

10.6. Hazardous decomposition products

None, if stored at the recommended storage conditions.

Other Information:

Hardening time: 5-7 days depending on floor temperature. (NOTE! Lowest floor temperature +10°C). Shelf life: approximately 24 months.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral

benzyl alcohol, cas-no 100-51-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		1230 mg/kg bw			Supplier

Ethanediol, cas-no 107-21-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		7712 mg/kg bw			

2-butoxyethanol, cas-no 111-76-2

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	ATE		1200 mg/kg bw			

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), cas-no 55965-84-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	LD50		457 mg/kg bw			ECHA

Based on existing data, the classification criteria are deemed not to have been met.
If ingested, can be irritating to mucous membranes of the mouth and gastrointestinal tract.

Acute toxicity - dermal

benzyl alcohol, cas-no 100-51-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LC50		2000 mg/kg bw			Supplier

Ethanediol, cas-no 107-21-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Mouse	LD50		> 3500 mg/kg			

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), cas-no 55965-84-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	LD50		660 mg/kg bw			ECHA

Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation

benzyl alcohol, cas-no 100-51-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (dust/mist)	4h	> 4.178 mg/l			Supplier

Ethanediol, cas-no 107-21-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	6 h	> 2.5 mg/l			

2-butoxyethanol, cas-no 111-76-2

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	ATE (vapours)		3 mg/l			

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), cas-no 55965-84-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	LC50		1.23 mg/m³			ECHA
	ATE (dust/mist)		0.31 mg/l			Supplier's Safety Data Sheet

Based on existing data, the classification criteria are deemed not to have been met.

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Skin corrosion/irritation:	Irritating to skin - may cause reddening.
Serious eye damage/eye irritation:	May cause eye irritation.
Respiratory sensitisation or skin sensitisation:	May cause sensitisation by skin contact. Symptoms include reddening, swelling, blistering and ulceration - often slowly developing.
Germ cell mutagenicity:	Based on existing data, the classification criteria are deemed not to have been met.
Carcinogenic properties:	Based on existing data, the classification criteria are deemed not to have been met.
Reproductive toxicity:	Based on existing data, the classification criteria are deemed not to have been met.
Single STOT exposure:	Based on existing data, the classification criteria are deemed not to have been met.
Repeated STOT exposure:	Based on existing data, the classification criteria are deemed not to have been met.
Aspiration hazard:	Based on existing data, the classification criteria are deemed not to have been met.

11.2. Information on other hazards

Endocrine disrupting properties:	Constituents have no endocrine-disrupting properties with respect to non-target organisms as they do not meet the criteria in Section B of Regulation (EU) 2017/2100.
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SECTION 12: Ecological information

12.1. Toxicity

bis-[4-(2,3-epoxipropoxy)phenyl]propane, cas-no 1675-54-3

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Crustacea	Daphnia sp.	48h	48hEC50	2.1 mg/l		OECD 202	Supplier's Safety Data Sheet
Algae		72h	72hLC50	> 11 mg/l			Supplier's Safety Data Sheet
Crustacea	Daphnia magna	21d	21dNOEC	0.3 mg/l		OECD 211	Supplier's Safety Data Sheet
Fish		96h	96hLC50	1.3 mg/l		OECD 203	Supplier's Safety Data Sheet

Bisphenol F diglycidyl ether, reaction mass of isomers, EC-no 701-263-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Algae		72h	72hEC50	> 1000 mg/l		OECD 201	
Crustacea	Daphnia sp.	48h	48hEC50	2.55 mg/l		OECD 202	Supplier's Safety Data Sheet
Fish		96h	96hLC50	2.54 mg/l			Supplier's Safety Data Sheet

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), cas-no 55965-84-9

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Oncorhynchus mykiss	96h	96hLC50	0.22 mg/l		OECD 203	Supplier's Safety Data Sheet
Algae	Skeletonema costatum	48h	48hEC50	0.0052 mg/l		ISO 10253	Supplier's Safety Data Sheet
Algae	Skeletonema costatum	48h	48hNOEC	0.00064 mg/l		ISO 10253	Supplier's Safety Data Sheet
Crustacea	Daphnia magna	21d	21dNOEC	0.004 mg/l		OECD 211	Supplier's Safety Data Sheet
Bacteria	Pseudokirchneriella subcapitata	72h	72hNOEC	0.0012 mg/l		OECD 201	Supplier's Safety Data Sheet
Fish	Oncorhynchus mykiss	28d	28dNOEC	0.098 mg/l		OECD 215	Supplier's Safety Data Sheet

Toxic to aquatic life with long lasting effects.

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12.2. Persistence and degradability

bis-[4-(2,3-epoxipropoxi)phenyl]propane, cas-no 1675-54-3

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28d		6 - 12 %		OECD 301 B	Supplier's Safety Data Sheet
		28d		5 %		OECD 301 F	

Bisphenol F diglycidyl ether, reaction mass of isomers, EC-no 701-263-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Active Sludge				16 %		OECD 301 B	Supplier's Safety Data Sheet

Not readily degradable.

12.3. Bioaccumulative potential

bis-[4-(2,3-epoxipropoxi)phenyl]propane, cas-no 1675-54-3

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	2.64 - 3.78			
			BCF	3 - 31			

Bisphenol F diglycidyl ether, reaction mass of isomers, EC-no 701-263-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	3.3			Supplier's Safety Data Sheet
			BCF	150			Supplier's Safety Data Sheet

The product is potentially bioaccumulative.

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

Constituents have no endocrine-disrupting properties with respect to non-target organisms as they do not meet the criteria in Section B of Regulation (EU) 2017/2100.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

If this product as supplied becomes a waste, it meets the criteria of a hazardous waste (Dir. 2008/98/EU). Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.
Mix with the hardener so that the product hardens. Hardened product is non-hazardous waste according to waste regulations. Contact the local authorities for instructions on handling. Use the below code for waste registration.

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Category of waste: EWC code: Depends on line of business and use, for instance
08 01 11* waste paint and varnish containing organic solvents or other hazardous substances
08 01 19* aqueous suspensions containing paint or varnish containing organic solvents or other hazardous substances
15 01 02 plastic packaging

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	3082	14.4. Packing group:	III
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	14.5. Environmental hazards:	The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l.
14.3. Transport hazard class(es):	9		
Hazard label(s):	9		
Hazard identification number:	90	Tunnel restriction code:	-

Inland water ways transport (ADN)

14.1. UN number or ID number:	3082	14.4. Packing group:	III
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	14.5. Environmental hazards:	The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l.
14.3. Transport hazard class(es):	9		
Hazard label(s):	9		
Transport in tank vessels:			

Sea transport (IMDG)

14.1. UN number or ID number:	3082	14.4. Packing group:	III
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	14.5. Environmental hazards:	The product must be labelled as a Marine Pollutant (MP) in packaging sizes of more than 5 kg/l.
14.3. Transport hazard class(es):	9	Environmental Hazardous Substance Name(s):	bis-[4-(2,3-epoxipropoxy)phenyl] propane
Hazard label(s):	9		
EmS:	F-A, S-F	IMDG Code segregation group:	- None -

Air transport (ICAO-TI / IATA-DGR)

14.1. UN number or ID number:	3082	14.4. Packing group:	III
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	14.5. Environmental hazards:	The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l.
14.3. Transport hazard class(es):	9		
Hazard label(s):	9		

14.6. Special precautions for user

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14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

Other Information: If the product is transported in small receptacles (< 5 kg or < 5 liter) it is not covered by the rules of transport of dangerous goods, as long as the receptacle complies with the rules.

SECTION 15: Regulatory information

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

Special Provisions: Special care should be applied for employees under the age of 18. Young people under the age of 18 may not carry out any work causing harmful exposure to this product.

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Other Information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with Regulation 1907/2006/EC "The Registration, Evaluation and Authorization of Chemicals" as amended by the stationary UK REACH etc. (EU Exit) as subsequently changed.

Training advice: When mixing two components, consult the safety data sheets for both components.

Vendor notes: Changes have been made in sections: 2, 3, 8, 16.

Hazard statements

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.

Supplemental hazard information

EUH205 Contains epoxy constituents. May produce an allergic reaction.

Country: GB