

# Safety Data Sheet

## Hagmans Klarlack EP-V komp A

Replaces date: 02/11/2022

Revision date: 08/08/2024

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

#### 1.1. Product identifier

**Trade name:** Hagmans Klarlack 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.

# Safety Data Sheet

## Hagmans Klarlack EP-V komp A

Replaces date: 02/11/2022

Revision date: 08/08/2024

### 2.2. Label elements

#### Pictograms



**Signal word:**

Warning

#### Contains

**Substance:**

bis-[4-(2,3-epoxipropoxy)phenyl]propane; Bisfenol F-Epoxyresin; 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.

Endocrine disrupting properties: None known.

# Safety Data Sheet

## Hagmans Klarlack EP-V komp A

Replaces date: 02/11/2022

Revision date: 08/08/2024

### 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 - 40 %		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
Bisfenol F-Epoxyresin	9003-36-5 500-006-8 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

# Safety Data Sheet

## Hagmans Klarlack EP-V komp A

Replaces date: 02/11/2022

Revision date: 08/08/2024

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation:</b>	Seek fresh air.
<b>Ingestion:</b>	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.
<b>Skin contact:</b>	Immediately remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.
<b>Eye contact:</b>	Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.
<b>General:</b>	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

<b>Suitable extinguishing media:</b>	The product is not directly flammable. Choose extinguishing agents based on the surrounding fire.
<b>Unsuitable extinguishing media:</b>	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.

# Safety Data Sheet

## Hagmans Klarlack EP-V komp A

Replaces date: 02/11/2022

Revision date: 08/08/2024

### 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 <sup>3</sup>	fiber/cm <sup>3</sup>	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
2-butoxyethanol	8h	25	123			BMGV
2-butoxyethanol	15m	50	246			BMGV

BMGV = Biological monitoring guidance value (listed in Table 2).

Sk = Can be absorbed through the skin.

# Safety Data Sheet

## Hagmans Klarlack EP-V komp A

Replaces date: 02/11/2022

Revision date: 08/08/2024

### 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
Bisfenol F-Epoxyresin, cas-no 9003-36-5				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC STP (wastewater-treatment facilities)	10 mg/l			
PNEC sediment (freshwater)	0,294 mg/kg bw/day			
PNEC sediment (marine water)	0,0294 mg/kg bw/day			
PNEC aqua (freshwater)	0,003 mg/l			
PNEC aqua (marine water)	0,0003 mg/l			
PNEC soil	0,237 mg/kg bw/day			
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			

# Safety Data Sheet

## Hagmans Klarlack EP-V komp A

Replaces date: 02/11/2022

Revision date: 08/08/2024

Ethanediol, 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			

# Safety Data Sheet

## Hagmans Klarlack EP-V komp A

Replaces date: 02/11/2022

Revision date: 08/08/2024

### 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/m <sup>3</sup>				
Dermal DNEL (long-term exposure - systemic effects)	8,3 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	12,3 mg/m <sup>3</sup>				
Bisfenol F-Epoxyresin, cas-no 9003-36-5					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (acute/short-term exposure - local effects)	8,3 µg/cm <sup>2</sup>				
Dermal DNEL (long-term exposure - systemic effects)	104,15 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	29,39 mg/kg bw/day				
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/m <sup>3</sup>				
Dermal DNEL (long-term exposure - systemic effects)	8 mg/kg bw/day				
Inhalation DNEL (acute/short-term exposure - systemic effects)	110 mg/m <sup>3</sup>				
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/m <sup>3</sup>				
Inhalation DNEL (long-term exposure - local effects)	35 mg/m <sup>3</sup>				
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

# Safety Data Sheet

## Hagmans Klarlack EP-V komp A

Replaces date: 02/11/2022

Revision date: 08/08/2024

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 <sup>3</sup>				
Inhalation DNEL (long-term exposure - systemic effects)	1,76 mg/m <sup>3</sup>				

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 <sup>3</sup>				
Inhalation DNEL (long-term exposure - systemic effects)	4,1 mg/m <sup>3</sup>				
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 <sup>3</sup>				
Inhalation DNEL (acute/short-term exposure - local effects)	40 µg/m <sup>3</sup>				

# Safety Data Sheet

## Hagmans Klarlack EP-V komp A

Replaces date: 02/11/2022

Revision date: 08/08/2024

### 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 <sup>3</sup>				
Dermal DNEL (long-term exposure - systemic effects)	4 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	5,4 mg/m <sup>3</sup>				
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 <sup>3</sup>				
Inhalation DNEL (long-term exposure - local effects)	7 mg/m <sup>3</sup>				
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 <sup>3</sup>				
Inhalation DNEL (acute/short-term exposure - local effects)	1,3 mg/m <sup>3</sup>				
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 <sup>3</sup>				
Inhalation DNEL (acute/short-term exposure - local effects)	40 µg/m <sup>3</sup>				

# Safety Data Sheet

## Hagmans Klarlack EP-V komp A

Replaces date: 02/11/2022

Revision date: 08/08/2024

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.

# Safety Data Sheet

## Hagmans Klarlack EP-V komp A

Replaces date: 02/11/2022

Revision date: 08/08/2024

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 <sup>3</sup>	
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.

# Safety Data Sheet

## Hagmans Klarlack EP-V komp A

Replaces date: 02/11/2022

Revision date: 08/08/2024

### SECTION 11: Toxicological information

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

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

#### 11.2. Information on other hazards

<b>Endocrine disrupting properties:</b>	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.
---	---

# Safety Data Sheet

## Hagmans Klarlack EP-V komp A

Replaces date: 02/11/2022

Revision date: 08/08/2024

### SECTION 12: Ecological information

#### 12.1. Toxicity

##### bis-[4-(2,3-epoxipropoxi)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

##### Bisfenol F-Epoxyresin, cas-no 9003-36-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Algae		72h	EC50	1000 mg/l		OECD 201	
Crustacea	Daphnia sp.	48h	EC50	2.55 mg/l		OECD 202	
Fish		96h	96hLC50	2.54 mg/l			

Toxic to aquatic life with long lasting effects.

#### 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	

##### Bisfenol F-Epoxyresin, cas-no 9003-36-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28d		16 %		OECD 301 B	

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			

##### Bisfenol F-Epoxyresin, cas-no 9003-36-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	3.3 mg/l			

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.

# Safety Data Sheet

## Hagmans Klarlack EP-V komp A

Replaces date: 02/11/2022

Revision date: 08/08/2024

### 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.

**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

## SECTION 14: Transport information

### Land transport (ADR/RID)

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

### Inland water ways transport (ADN)

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

# Safety Data Sheet

## Hagmans Klarlack EP-V komp A

Replaces date: 02/11/2022

Revision date: 08/08/2024

### Sea transport (IMDG)

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

### Air transport (ICAO-TI / IATA-DGR)

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

### 14.6. Special precautions for user

### 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

### 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.

# Safety Data Sheet

## Hagmans Klarlack EP-V komp A

Replaces date: 02/11/2022

Revision date: 08/08/2024

### 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