

Safety Data Sheet

Hagmans Klarlack EP-V komp B

Replaces date: 20/12/2022

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 B
Group name: Polyamine Emulsion
Synonyms: Hagmans Klarlack EP-V komp B, Klarlak EP-V komp B, Klarlakk EP-V komp B, Kirkaslakka EP- V komp B, Clear Lacquer EP-V comp B

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

Recommended uses: Curing agent two component system Paint

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 Dam. 1;H318
Aquatic Chronic 3;H412

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

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2.2. Label elements

Pictograms



Signal word: Danger

Contains

Substance: Polyoxypropylene diamine; Polymer from badge, polyethylene glycol, teta and cresyl glycidyl ether; Benzyl alcohol;

Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/eye protection.
P302/352 IF ON SKIN: Wash with plenty of soap and water.
P362+364 Take off contaminated clothing and wash it before reuse.
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.

VOC: This product contains a maximum of 140 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
Polyoxypropylene diamine	9046-10-0 618-561-0 01-2119557899-12	5 -< 10 %		Skin Corr. 1C;H314 Aquatic Chronic 3;H412
Polymer from badge, polyethylene glycol, teta and cresyl glycidyl ether	362679-94-5	3 -< 5 %		Eye Dam. 1;H318
1-methoxy-2-propanol	107-98-2 203-539-1 01-2119457435-35	1 -< 5 %		Flam. Liq. 3;H226 STOT SE 3;H336 LC50 (vapour) (Acute toxicity - inhalation): 30.02 mg/l LD50 (Acute toxicity - oral): 3739 - 4277 mg/kg bw LD50 (Acute toxicity - dermal): > 2000 mg/kg bw
Benzyl alcohol	100-51-6 202-859-9 01-2119492630-38	1 -< 5 %		Acute Tox. 4;H302 Skin Sens. 1B;H317 Eye Irrit. 2;H319 LC50 (dust/mist) (Acute toxicity - inhalation): > 4178 mg/l LD50 (Acute toxicity - dermal): > 2000 mg/kg bw ATE (Acute toxicity - oral): 1200 mg/kg bw
Dodecan-1-ol, ethoxylated	9002-92-0 500-002-6 01-2119968561-30	0.25 -< 1 %		Acute Tox. 4;H302 Eye Irrit. 2;H319 Aquatic Acute 1;H400 Aquatic Chronic 1;H410 LD50 (Acute toxicity - oral): 1000 mg/kg bw

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:	Seek fresh air. In case of respiratory stop, administer artificial respiration/oxygen (but not the mouth-to-nose method) Call a POISON CENTER or doctor/physician if you feel unwell.
Ingestion:	Do not induce vomiting. If vomiting occurs, keep head low so that stomach contents do not enter lungs. Call a POISON CENTER or doctor/physician.
Skin contact:	Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.
Eye contact:	Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.
General:	When obtaining medical advice, show the safety data sheet or label. Never give anything by mouth to an unconscious person.

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

Irritating to skin - may cause reddening. Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight. May cause sensitisation by skin contact. Symptoms include reddening, swelling, blistering and ulceration - often slowly developing.

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

Treat symptoms.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with powder, foam, carbon dioxide or water mist.

5.2. Special hazards arising from the substance or mixture

Can generate harmful flue gases containing carbon monoxide in the event of fire. Send contaminated extinguishing water for destruction.

5.3. Advice for firefighters

Wear respiratory protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Wear gloves. Wear safety goggles.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

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.

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.
In connection with workplace assessments, it must be ensured that employees are not exposed to any epoxy effects.
Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

7.2. Conditions for safe storage, including any incompatibilities

Store safely and keep out of reach of children. Store frost-free. Store in a dry, cool, well-ventilated area.
Keep in tightly closed original packaging. Do not store with the following: Acids/ Oxidisers.

7.3. Specific end use(s)

No special uses in addition to identified uses in 1.2.

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m ³	fiber/cm ³	Remarks	Comments
1-methoxy-2-propanol	15m	150	560			Sk
1-methoxy-2-propanol	8h	100	375			Sk

Sk = Can be absorbed through the skin.

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PNEC

Polyoxypropylene diamine, cas-no 9046-10-0				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	0,015 ml/kg			
PNEC sediment (freshwater)	0,132 mg/kg			
PNEC STP (wastewater-treatment facilities)	7,5 mg/l			
PNEC aqua (marine water)	0,014 mg/l			
PNEC sediment (marine water)	0,125 mg/kg			
PNEC oral (foodstuffs)	6,93 mg/kg			
PNEC soil	0,018 mg/kg			
1-methoxy-2-propanol, cas-no 107-98-2				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (marine water)	1 mg/l			
PNEC STP (wastewater-treatment facilities)	100 mg/l			
PNEC sediment (marine water)	5,2 mg/kg			
PNEC aqua (freshwater)	10 mg/l			
PNEC sediment (freshwater)	52,3 mg/kg			
PNEC soil	4,59 mg/kg			
Benzyl alcohol, cas-no 100-51-6				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	1-1,02 mg/l			
PNEC aqua (intermittent releases (fresh water))	2,3 mg/l			
PNEC aqua (marine water)	100-102 µg/l			
PNEC STP (wastewater-treatment facilities)	39 mg/l			
PNEC sediment (freshwater)	5,27 mg/kg dw			
PNEC sediment (marine water)	527 mg/kg dw			
PNEC soil	456 µg/kg dw			
Dodecan-1-ol, ethoxylated, cas-no 9002-92-0				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (marine water)	0,139 µg/l			
PNEC sediment (freshwater)	25,9 µg/kg dw			
PNEC STP (wastewater-treatment facilities)	0,25 mg/l			
PNEC aqua (freshwater)	1,39 µg/l			
PNEC sediment (marine water)	2,59 µg/kg dw			
PNEC soil	4,35 µg/kg dw			

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DNEL - workers

Polyoxypropylene diamine, cas-no 9046-10-0					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	1,36 mg/m ³				Developmental toxicity/teratogenicity
Dermal DNEL (long-term exposure - systemic effects)	2,5 mg/kg				
1-methoxy-2-propanol, cas-no 107-98-2					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (acute/short-term exposure - local effects)	553,5 mg/m ³				Neurotoxicity
Dermal DNEL (long-term exposure - systemic effects)	183 mg/kg				
Inhalation DNEL (long-term exposure - systemic effects)	369 mg/m ³				
Benzyl alcohol, cas-no 100-51-6					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	8 mg/kg bw/day				
Dermal DNEL (acute/short-term exposure - systemic effects)	40 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	22 mg/m ³				
Inhalation DNEL (acute/short-term exposure - systemic effects)	110 mg/m ³				
Dodecan-1-ol, ethoxylated, cas-no 9002-92-0					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	4,93 mg/m ³				Developmental toxicity/teratogenicity
Dermal DNEL (long-term exposure - systemic effects)	1,4 mg/kg				Developmental toxicity/teratogenicity

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DNEL - general population

Benzyl alcohol, cas-no 100-51-6					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	4 mg/kg bw/day				
Dermal DNEL (acute/short-term exposure - systemic effects)	20 mg/kg bw/day				
Inhalation DNEL (acute/short-term exposure - systemic effects)	27 mg/m ³				
Inhalation DNEL (long-term exposure - systemic effects)	5,4 mg/m ³				

8.2. Exposure controls

Appropriate engineering controls: Facilities for eye rinsing must be available. Do not eat, drink or smoke when using this product. 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. Wear coveralls.

Personal protective equipment, hand protection: Wear gloves. Type of material: Rubber. Plastic/ Polyvinyl chloride (PVC). Gloves must conform to EN 374.

Personal protective equipment, respiratory protection: In case of insufficient ventilation: Wear respiratory protective equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Liquid
Colour	White
Odour	Weak
Solubility	Solubility in water: Dispersible.

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Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	96 °C	
Flammability (solid, gas)		Non-flammable
Flammability limits		Not relevant
Explosion limits		Not relevant
Flash Point	> 100 °C	
Auto-ignition temperature	No data	
Decomposition temperature:	No data	
pH (solution for use)	11	
pH (concentrate)	No data	
Kinematic viscosity	200 mm ² /s	@ 23 °C
Viscosity	200 mPa*s	@ 23 °C
Partition coefficient n-octanol/water	No data	
Vapour pressure	24.871 hPa	@ 21°C
Density	1080 kg/m ³	@ 21°C
Relative density	1.08	(water = 1)
Relative vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

9.2. Other information

Parameter	Value/unit	Remarks
Explosive properties		Non-explosive
Oxidising properties		Non-oxidising.

Other Information: * Benzyl alcohol is not included as VOC since it reacts when the product harden.

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

None known.

10.5. Incompatible materials

Sodium hypochlorite. Organic acids (eg acetic acid, citric acid). Alkalis/ Oxidisers. Peroxides.

10.6. Hazardous decomposition products

Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released. Carbon monoxide and carbon dioxide. Nitric oxide. Ammonia

Other Information: Hardening time: 5-7 days depending on floor temperature. (NOTE! Lowest floor temperature +12°C).

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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: Based on existing data, the classification criteria are deemed not to have been met. Ingestion may cause discomfort.

Acute toxicity - dermal: Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation: Based on existing data, the classification criteria are deemed not to have been met.

Skin corrosion/irritation

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	in vitro			Irritating Not corrosive	OECD 435	Supplier's Safety Data Sheet

Polyoxypropylene diamine, cas-no 9046-10-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Corrosive	OECD 404	Supplier's Safety Data Sheet

Irritating to skin - may cause reddening.

Serious eye damage/eye irritation

Polyoxypropylene diamine, cas-no 9046-10-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Risk of serious damage to eyes.	OECD 405	Supplier's Safety Data Sheet

Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight.

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.

SECTION 12: Ecological information

12.1. Toxicity

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

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12.2. Persistence and degradability

Polyoxypropylene diamine, cas-no 9046-10-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
				0 %	Not readily biodegradable.	OECD 301 B	

1-methoxy-2-propanol, cas-no 107-98-2

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
				96 %	Readily biodegradable.	OECD 301 E	

Dodecan-1-ol, ethoxylated, cas-no 9002-92-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
				92 - 96 %	Readily biodegradable.	OECD 301 C	

Not expected to be biodegradable.

12.3. Bioaccumulative potential

Test data are not available for all substances.

12.4. Mobility in soil

Test data are not available for all substances.

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 component B with component A 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 19* aqueous suspensions containing paint or varnish containing organic solvents or other hazardous substances
08 01 12 waste paint and varnish other than those mentioned in 08 01 11

SECTION 14: Transport information

14.1. UN number or ID number: Not applicable.

14.2. UN proper shipping name: Not applicable.

14.3. Transport hazard class(es): Not applicable.

14.4. Packing group: Not applicable.

14.5. Environmental hazards: Not applicable.

14.6. Special precautions for user

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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

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

Vendor notes: Changes have been made in sections: 2, 3, 4, 11, 16.

Hazard statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
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.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Country: GB