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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.07.2021

Revision: 30.09.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: HADALAN VS-E 12E, Komp. A · Article number: 40312A · UFI: ED70-Q04E-K002-QKA8 · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. • Application of the substance / the mixture Solvent-free, elastic 2-component epoxy resin floor coating - component A. · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Sievert Baustoffe GmbH & Co. KG Mühleneschweg 6 D-49090 Osnabrück Tel.: +49 2363 5663-0 • Further information obtainable from: Abteilung: Produktsicherheit Tel.. +49 2363 5663-0 info-hahne@sievert.de · 1.4 Emergency telephone number: Giftinformationszentrum Nord (GIZ Nord) Universität Göttingen, Tel.: 0551-19240 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS09 environment Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eve Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. · Hazard pictograms GHS09 GHS07 · Signal word Warning (Contd. on page 2) Page 2/9

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· Hazard-determining components of labelling:	
bis[4-(2,3-epoxypropoxy)phenyl]propane	
formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	
oxirane, mono[(C12-14-alkyloxy)methyl] derivs	
Hazard statements	
H315 Causes skin irritation.	
H319 Causes serious eye irritation.	
H317 May cause an allergic skin reaction.	
H411 Toxic to aquatic life with long lasting effects.	
Precautionary statements	
P262 Do not get in eyes, on skin, or on clothing.	
P273 Avoid release to the environment.	
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protect	ion.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.	
P360 Rinse immediately contaminated clothing and skin with plenty of water before removing c	clothes.
Additional information:	
Contains epoxy constituents. May produce an allergic reaction.	
Safety data sheet available on request.	
Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.	
2.3 Other hazards	
· Results of PBT and vPvB assessment	
· <i>PBT</i> : Not applicable.	
vPvB: Not applicable.	

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• Description: Mixture of the substances listed below with harmless additions

 Dangerous compone 	ents:	
CAS: 1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	25-50%
EINECS: 216-823-5	Aquatic Chronic 2, H411; (1) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 9003-36-5	formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	2.5-10%
	🚯 Aquatic Chronic 2, H411; 🕕 Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	2.5-10%
EINECS: 271-846-8	♦ Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 13463-67-7	titanium dioxide	2.5-10%
EINECS: 236-675-5	🚯 Carc. 2, H351	
• Additional informati	ion:	

For the wording of the listed hazard phrases refer to section 16. GISCODE: RE 1 (Komp. A + B)

SECTION 4: First aid measures

• 4.1 Description of first aid measures

· General information: Remove contaminated clothing immediately.

• After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

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• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available. • 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

• 5.1 Extinguishing media

- · Suitable extinguishing agents:
- Use fire extinguishing methods suitable to surrounding conditions.

not applicable, product is not flammable

Foam (alcohol resistant); Carbon dioxide, powder, spray mist

· For safety reasons unsuitable extinguishing agents: Full water jet.

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters

• Protective equipment: In the event of fire: Use breathing protection with an independent fresh air supply.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Keep people away, ensure adequate ventilation.
- 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling Store in a cool, dry place in tightly closed containers.

- Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- *Requirements to be met by storerooms and receptacles:* Store container in a cool, well-ventilated place.
- · Information about storage in one common storage facility: Store away from food, drink and animal feed.
- Further information about storage conditions: Keep container tightly sealed.
- · Storage class: VCI: 10
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

• Additional information about design of technical facilities: No further data; see item 7.

· Ingredients with limit values that require monitoring at the workplace:

13463-67-7 titanium dioxide (2.5-10%)

WEL Long-term value: 10* 4** mg/m³ *total inhalable **respirable

• Additional information: The lists valid during the making were used as basis.

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(Contd. of page 3) · 8.2 Exposure controls · Personal protective equipment: • General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. · **Respiratory protection:** Not required with good ventilation. · Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Wear nitrile gloves with a layer thickness of > 0.4 mm (penetration time > = 480 minutes - see also www.gisbau.de) · Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. • Eve protection: Tightly sealed goggles · Body protection: Protective work clothing **SECTION 9: Physical and chemical properties** • 9.1 Information on basic physical and chemical properties · General Information · Appearance: Form: Fluid Colour: according to product name Characteristic · Odour: Not determined. · Odour threshold: · pH-value: n.a. · Change in condition *Melting point/freezing point:* Undetermined. Initial boiling point and boiling range: >200 °C · Flash point: Not applicable

	Noi applicable.	
· Flammability (solid, gas):	Not applicable.	
· Ignition temperature:	450 °C	
Decomposition temperature:	Not determined.	
• Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure:	Not determined.	
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· Density at 20 °C:	$1.6 g/cm^3$	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Solids content:	100.0 %	
• 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- *Thermal decomposition / conditions to be avoided:* No decomposition if used according to specifications. • 10.3 Possibility of hazardous reactions
- Exothermic reactions with amines. Process quickly after adding the hardener, as high temperatures can be reached during the hardening process.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials:

Keep away from strongly acidic and alkaline materials as well as oxidizing agents in order to avoid exothermic reactions.

· 10.6 Hazardous decomposition products:

At high temperatures, carbon dioxide, carbon monoxide, smoke and nitrogen oxides can be produced.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

Acute oral toxicity Very low oral toxicity. Harmful effects are produced if small amounts are swallowed not expected. As a product. Oral LD50 (single dose) has not been determined. Based on Information for component (s): LD50, rat, > 10,000 mg / kg (estimated) Acute dermal toxicity Skin resorption of harmful amounts is unlikely after prolonged exposure. As a product. Dermal LD50: not determined. Based on information for component (s): LD50, rabbit, > 5,000 mg / kg (estimated) Acute inhalation toxicity Excessive exposure may cause upper respiratory tract irritation. The LC50 has not been determined. · Acute toxicity Based on available data, the classification criteria are not met. · Primary irritant effect: · Skin corrosion/irritation Causes skin irritation. · Serious eye damage/irritation

Causes serious eye irritation.

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· Respiratory or skin sensitisation

May cause an allergic skin reaction.

• Additional toxicological information:

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

• Germ cell mutagenicity Based on available data, the classification criteria are not met.

• Carcinogenicity Based on available data, the classification criteria are not met.

• Reproductive toxicity Based on available data, the classification criteria are not met.

- **STOT-single exposure** Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

2,2 '- ((1-methylethylidene) bis (4,1-phenyleneoxymethylene)) bis-oxirane Acute fish toxicity The product is toxic to aquatic organisms (LC50 / EC50 / IC50 between 1 and 10 mg / 1 for the most sensitive species). LC50, Oncorhynchus mykiss (rainbow trout), semi-static test, 96 h, 2 mg / l Acute toxicity to aquatic invertebrates EC50, Daphnia magna (Big water flea), static test, 48 h, 1.8 mg/l Acute toxicity to algae / aquatic plants ErC50, Scenedesmus capricornutum (freshwater algae), static test, 72 h, inhibition of the growth rate, 11 mg/ Toxicity to bacteria *IC50, bacteria, 18 h,> 42.6 mg / l Chronic toxicity to aquatic invertebrates* MATC value (Maximum Acceptable Toxicant Level), Daphnia magna (Large water flea), semi-static Test, 21 d, number of offspring, 0.55 mg / l Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Acute fish toxicity The product is toxic to aquatic organisms (LC50 / EC50 / IC50 between 1 and 10 mg / 1 for the most sensitive species). LC50, freshwater fish, 96 h, 2.54 mg / l Acute toxicity to aquatic invertebrates EC50, Daphnia magna, static, 48 h,> 1,000 mg / l, OECD Test Guideline 202 or equivalent Acute toxicity to algae / aquatic plants EC50, Selenastrum capricornutum (green algae), static, 72 h,> 1.8 mg / l, OECD test guideline 201 Toxicity to bacteria Activated sludge, static, 3 h, other, > 100 mg / lChronic toxicity to aquatic invertebrates NOEC, Daphnia magna, semi-static test, 21 d, number of offspring, 0.3 mg / l Oxirane, mono [(C12-14-alkyloxy) methyl] derivatives Acute fish toxicity The material is not harmful to aquatic organisms (LC50 / EC50 / IC50 / LL50 / EL50 > 100 mg / L for the most sensitive species). LC50, Oncorhynchus mykiss (rainbow trout), static test, 96 h, > 5,000 mg / l LC50, Lepomis macrochirus (blue sunfish), static test, 96 h, 1,800 mg/l, other guidelines Acute toxicity to algae / aquatic plants EbC50, Pseudokirchneriella subcapitata (green algae), 72 h, growth inhibition (reduction in Cell density), 843 mg/lNOEC, Pseudokirchneriella subcapitata (green algae), 72 h, growth inhibition (reduction in Cell density), 500 mg / lToxicity to bacteria EC50, activated sludge, static test, 3 h, breathing rate., > 100 mg/l• Aquatic toxicity: No further relevant information available. • 12.2 Persistence and degradability No further relevant information available. (Contd. on page 7) GB

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- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Ecotoxical effects:
- Remark: Toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- Also poisonous for fish and plankton in water bodies.
- Toxic for aquatic organisms
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

· Uncleaned packaging:

• *Recommendation: Disposal must be made according to official regulations.*

14.1 UN-Number ADR, IMDG, IATA	UN3082
14.2 UN proper shipping name ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)phenyl propane, formaldehyde, oligomeric reaction products wit 1-chloro-2,3-epoxypropane and phenol)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)phenyl propane, formaldehyde, oligomeric reaction products wit 1-chloro-2,3-epoxypropane and phenol), MARIN POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)phenyl propane, formaldehyde, oligomeric reaction products wit 1-chloro-2,3-epoxypropane and phenol)
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class Label	9 Miscellaneous dangerous substances and articles. 9

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· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
• 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
 Hazard identification number (Kemler code): Stowage Category 	90 A
· 14.7 Transport in bulk according to Annex II o Marpol and the IBC Code	of Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category · Tunnel restriction code	3 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (BIS[4-(2,3 E P O X Y P R O P O X Y) P H E N Y L] P R O P A N E FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPAN AND PHENOL), 9, III

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category E2 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

• DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· National regulations:

• Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

• Other regulations, limitations and prohibitive regulations

Regular occupational medical examinations must be arranged for activities involving exposure to uncured epoxy resins and contact via the skin or the respiratory tract.

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	y high concern (SVHC) according to REACH, Article 57 rliegt der RL 2004/42/EG.
EU-Grenzwert d enthält im gebra	eses Produktes ist im gebrauchtfertigen Zustand: Kat A/j max. 500 g/l (2010). Das Produ chtfertigen Zustand: max. 1 g/l VOC.
15.2 Chemical s	fety assessment: A Chemical Safety Assessment has not been carried out.
SECTION 16	Other information
	is based on our present knowledge. However, this shall not constitute a guarantee for ar eatures and shall not establish a legally valid contractual relationship.
Relevant phrase	
H315 Causes ski	
H317 May cause	an allergic skin reaction.
	ous eye irritation.
	f causing cancer.
	uatic life with long lasting effects.
Abbreviations an	
	national concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning t
International Transp	ort of Dangerous Goods by Rail)
	us Goods Regulations by the "International Air Transport Association" (IATA) Civil Aviation Organisation
	nstructions by the "International Civil Aviation Organisation" (ICAO)
	en sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation
Carriage of Dangero	
	Maritime Code for Dangerous Goods ir Transport Association
	onised System of Classification and Labelling of Chemicals
	nventory of Existing Commercial Chemical Substances
	ist of Notified Chemical Substances
	acts Service (division of the American Chemical Society) ccumulative and Toxic
SVHC: Substances o	
vPvB: very Persisten	and very Bioaccumulative
	rosion/irritation – Category 2
	ye damage/eye irritation – Category 2 sitisation – Category 1
Carc. 2: Carcinogen	
	azardous to the aquatic environment - long-term aquatic hazard – Category 2