Page 1/9

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 29.09.2020 Revision: 29.09.2020

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

- · 1.1 Product identifier
- · Trade name: HADALAN VS 12E, Komp. B
- · Article number: 40239B
- · UFI: 8270-P0CU-C003-2700
- · 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, 2-component epoxy resin floor coating for areas with high mechanical and chemical stress.

- · 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



GHS05 corrosion

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

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.

(Contd. on page 2)

Printing date 29.09.2020 Revision: 29.09.2020

Trade name: HADALAN VS 12E, Komp. B

(Contd. of page 1)

· Hazard pictograms







GHS05

GHS07

· Signal word Danger

· Hazard-determining components of labelling:

Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated

N-(2-Aminoethyl)-1,2-ethanediamine reaction products with glycidyl tolyl ether

3-aminopropyldiethylamine

Benzyl alcohol

2,2'-iminodiethylamine

· Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements

P260 Do not breathe vapours.

P262 Do not get in eyes, on skin, or on clothing.

Wear protective gloves/protective clothing/eye protection/face protection. P280

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

· 2.3 Other hazards

P332+P313

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Amine-containing hardener for epoxy resins.

CAS: 1173092-74-4	Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated	50-75%
	Skin Corr. 1C, H314; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1, H317	
CAS: 84144-79-6	N-(2-Aminoethyl)-1,2-ethanediamine reaction products with glycidyl tolyl ether	25-50%
	Skin Corr. 1C, H314; Eye Dam. 1, H318; 🔖 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; 🐧 Acute Tox. 4, H302; Skin Sens. 1, H317	
CAS: 104-78-9	3-aminopropyldiethylamine	2.5-10%
EINECS: 203-236-4	♠ Flam. Liq. 3, H226; ♠ Skin Corr. 1B, H314; ♠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	
CAS: 100-51-6	Benzyl alcohol	2.5-10%
EINECS: 202-859-9	♦ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	
CAS: 111-40-0	2,2'-iminodiethylamine	<1.0%
EINECS: 203-865-4	♦ Skin Corr. 1B, H314;	

(Contd. on page 3)

Printing date 29.09.2020 Revision: 29.09.2020

Trade name: HADALAN VS 12E, Komp. B

(Contd. of page 2)

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · 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.
- 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.
- · 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- 5.3 Advice for firefighters
- · Protective equipment: Mount respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

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).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- Information about fire and explosion protection: Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- ·Storage
- Requirements to be met by storerooms and receptacles: Store in the original container.

(Contd. on page 4)

Printing date 29.09.2020 Revision: 29.09.2020

Trade name: HADALAN VS 12E, Komp. B

(Contd. of page 3)

· Information about storage in one common storage facility:

Do not store together with acids.

Store away from food, beverages and feed.

- · Further information about storage conditions: Keep container tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

100-51-6 Benzyl alcohol (2.5-10%)

WEL | Long-term value: 22 mg/m³, 5 ml/m³ 2 (I); DFG, H, Y, 11

DNELs

Benzyl alcohol

Worker inhalation long-term systemic effects; 22 mg/m3 ECHA

Worker inhalation Acute systemic effects; 110 mg/m3 ECHA

Worker skin contact long-term systemic effects; 8 mg/kg body weight/day ECHA

Worker skin contact Acute systemic effects; 40 mg/kg body weight / day ECHA

Consumer inhalation Long-term systemic effects; 5.4 mg/m3 ECHA

Consumer inhalation Acute systemic effects; 27 mg/m3 ECHA

Consumer skin contact long-term systemic effects; 4 mg/kg body weight/day ECHA

Consumer skin contact Acute systemic effects; 20 mg/kg body weight/day ECHA

Consumer Oral Long-term Systemic Effects; 4 mg/kg body weight/day ECHA

Consumer Oral Acute Systemic Effects; 20 mg/kg body weight/day ECHA

3-aminopropyl diethylamine

Average population Oral Long-term systemic effects; 0.08 mg/kg body weight/day toxicity

Repeated Doses Workers Dermal Long-Term Systemic Effects; 0.16 mg/kg body weight/day

Repeated dose toxicity worker inhalation Long-term local effects; 1.17 mg/m3 irritation of the Respiratory tract.

Worker inhalation short-term - locally; 2.34 mg/m3 Irritation of the respiratory tract.

Average population inhalation Long-term systemic effects; 0.29 mg/m3

Repeated dose toxicity worker inhalation Long-term systemic effects; 1.17 mg/m3

Repeated dose toxicity Average population short-term inhalation - local; 0.29 mg/m3

Average population eyes local effect; No data is available

Workers eyes local effect; High risk (no threshold derived)

Diethylenetriamine

Worker inhalation long-term systemic effects; 15.4 mg/m3 ECHA

Worker inhalation Acute systemic effects; 92.1 mg/m3 ECHA

Worker inhalation long-term - local effects; 0.87 mg/m3 ECHA

Worker inhalation Acute local effects; 2.6 mg/m3 ECHA

Worker skin contact long-term systemic effects; 11.4 mg/kg body weight/day ECHA

Worker skin contact long-term - local effects; 1.1 mg/cm2 ECHA

Consumer inhalation long-term systemic effects; 4.6 mg $/\,m3$ ECHA

Consumer inhalation Acute systemic effects; 27.5 mg/m3 ECHA

Consumer skin contact long-term systemic effects; 4.88 mg / kg body weight / day ECHA

· PNECs

Benzyl alcohol

Fresh water 1 mg/l, sea water 0.1 mg/l

Sporadic releases 2.3 mg/l, wastewater treatment plant (STP) 39 mg/l

Fresh water sediment 5.27 mg / kg dry weight, sea water sediments 0.527 mg / kg dry weight

Soil 0.456 mg / kg dry weight

3-aminopropyl diethylamine

Sewage treatment plant 10 mg/l, aquatic (sea water) 0.003 mg/l, aquatic (fresh water) 0.03 mg/l

Sediment (sea water) 0.011 mg / kg, sediment (fresh water) 0.115 mg / kg

Soil 0.005 mg / kg

(Contd. on page 5)

Printing date 29.09.2020 Revision: 29.09.2020

Trade name: HADALAN VS 12E, Komp. B

(Contd. of page 4)

Diethylenetriamine

Fresh water 0.56 mg/l, marine water 0.056 mg/l

Sporadic releases 0.32 mg/l, sewage treatment plant (STP) 6 mg/l

Fresh water sediment 1072 mg/kg dry weight, sea water sediment 107.2 mg/kg dry weight, soil 214 mg/kg dry weight

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

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· 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.

· Eye protection: Tightly sealed goggles

SECTION 9: Physical and chemical properties

 9.1 Information on basic physical and chemical properties 	· 9.1	! Inf	formation	on	basi	c pi	hysica	l ana	l ci	hemi	cal	propertie	S
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· General Information

· Appearance:

Form: Fluid

Colour: According to product specification

Odour: like aminesOdour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/freezing point: Undetermined. **Initial boiling point and boiling range:** 205 °C

· Flash point: 101 °C

· Flammability (solid, gas): Not applicable.

· Ignition temperature: 435 °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.

(Contd. on page 6)

Printing date 29.09.2020 Revision: 29.09.2020

Trade name: HADALAN VS 12E, Komp. B

		(Contd. of page
Upper:	Not determined.	
· Vapour pressure at 50 °C:	<5 hPa	
· Density:	Not determined.	
· 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.	
· 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 No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity

Harmful if swallowed.

- · Primary irritant effect:
- Skin corrosion/irritation

Causes severe skin burns and eye damage.

· Serious eye damage/irritation

Causes serious eye damage.

· Respiratory or skin sensitisation

May cause an allergic skin reaction.

- · 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
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.

(Contd. on page 7)

Printing date 29.09.2020 Revision: 29.09.2020

Trade name: HADALAN VS 12E, Komp. B

(Contd. of page 6)

- · Ecotoxical effects:
- · Remark: Very toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very 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.

SECTION 14: T	ransport ii	ıformation

· 14.1 UN-Number · ADR, IMDG, IATA	UN2735
· 14.2 UN proper shipping name	
$\cdot ADR$	2735 AMINES, LIQUID, CORROSIVE, N.O.S
	(Carbomonozyklische, alkylierte Gemische aus Poly-aza
	Alkanen, hydriert, N-(2-Aminoethyl)-1,2-ethanediamin
	reaction products with glycidyl tolyl ether)
	ENVIRONMENTALLY HAZARDOUS
· IMDG, IATA	AMINES, LIQUID, CORROSIVE, N.O.S
IMDU, IATA	(Carbomonocyclic alkylated mixtures of poly-aza-alkanes
	hydrogenated, N-(2-Aminoethyl)-1,2-ethanediamin
	reaction products with glycidyl tolyl ether)

- · 14.3 Transport hazard class(es)
- · ADR





· Class

· Label

8 Corrosive substances.

(Contd. on page 8)

Printing date 29.09.2020 Revision: 29.09.2020

Trade name: HADALAN VS 12E, Komp. B

	(Contd. of page
· IMDG, IATA	
· Class · Label	8 Corrosive substances. 8
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR):	No Symbol (fish and tree)
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Segregation groups · Stowage Category · Segregation Code	Warning: Corrosive substances. 80 F-A,S-B Alkalis A SG35 Stow "separated from" SGG1-acids
· 14.7 Transport in bulk according to Annex II o Marpol and the IBC Code	of Not applicable.
· Transport/Additional information:	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· 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 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (CARBOMONOZYKLISCHE, ALKYLIERTE GEMISCH AUS POLY-AZA-ALKANEN, HYDRIERT, N-(2AMINOETHYL)-1,2-ETHANEDIAMINE REACTIO PRODUCTS WITH GLYCIDYL TOLYL ETHER), 8, II ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:
- · Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.
- · Other regulations, limitations and prohibitive regulations

During activities involving exposure to uncured epoxy resins and contact via the skin or the Regular preventive examinations are to be arranged for the respiratory tract.

The product is subject to RL 2004/42 / EG. The EU limit value for this product is in the used state:

(Contd. on page 9)

Printing date 29.09.2020 Revision: 29.09.2020

Trade name: HADALAN VS 12E, Komp. B

(Contd. of page 8)

Cat A/j max. 500 g/l (2010). When used, the product contains: max. 1 g/l VOC

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

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.

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity - oral – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

 $Aquatic\ Acute\ 1:\ Hazardous\ to\ the\ aquatic\ environment\ -\ acute\ aquatic\ hazard\ -\ Category\ 1$

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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