

Printing date 18.08.2014 Revision: 18.08.2014

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

· Product identifier

· Trade name: HADALAN VS-E 12E, Komp. B

· Article number: 50278 C

· 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 elastic epoxy resin coating

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Heinrich Hahne GmbH & Co. KG

Heinrich-Hahne-Weg 11

45711 Datteln

Tel.:02363/5663-0

· Further information obtainable from:

Abteilung: Produktsicherheit

Tel.: 02363 5663-0

EMail: in fo@hahne-bautenschutz.de

· Emergency telephone number:

Giftinformationszentrum Nord (GIZ Nord) Universität Göttingen,

Tel.: 0551-19240

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

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



•

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC
- · Hazard description: C Corrosive
- · Information concerning particular hazards for human and environment:

R 21/22 Harmful in contact with skin and if swallowed.

R 34 Causes burns.

R 43 May cause sensitisation by skin contact.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- · 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)



(Contd. of page 1)

Printing date 18.08.2014 Revision: 18.08.2014

Trade name: HADALAN VS-E 12E, Komp. B

· Hazard pictograms





GHS05 GHS07

· Signal word Danger

· Hazard-determining components of labelling:

Polyoxypropylendiamin

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Benzyl alcohol

trimethylhexane-1,6-diamine

· Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

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

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

with water/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.

P332+P313 If skin irritation occurs: Get medical advice/attention.

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Containing amine hardener for epoxy resin

· Dangerous compone	ents:	
CAS: 2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	10-25%
EINECS: 220-666-8	☐ C R34; Xn R21/22; Xi R43	
	R52/53	
	Skin Corr. 1B, H314;	
CAS: 100-51-6	Benzyl alcohol	10-25%
EINECS: 202-859-9	X n R20/22	
CAS: 1477-55-0	m-phenylenebis(methylamine)	2.5-10%
EINECS: 216-032-5	<u>□</u> C R34; × Xn R22	
	♦ Skin Corr. 1B, H314; ♦ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	
	C R34; ★ Xn R22 ♦ Skin Corr. 1B, H314; ♦ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute	

(Contd. on page 3)



Printing date 18.08.2014 Revision: 18.08.2014

Trade name: HADALAN VS-E 12E, Komp. B

		(Contd. of page 2
CAS: 9046-10-0	Polyoxypropylendiamin	25-50%
	\square C R34; X Xn R21/22	
	R52/53	
	🔷 Skin Corr. 1B, H314; Aquatic Chronic 3, H412	
CAS: 25620-58-0	trimethylhexane-1,6-diamine	2.5-10%
EINECS: 247-134-8	<u>₹ C R34;</u> Xn R22; Xi R43	
	📀 Skin Corr. 1B, H314; 아 Acute Tox. 4, H302; Skin Sens. 1, H317	
CAS: 61788-46-3	Amine, Kokos-alkyl-	2.5-10%
EINECS: 262-977-1	<u> C R35;</u> Xn R22;	
	♦ Skin Corr. 1A, H314; ♦ Aquatic Acute 1, H400; ♦ Acute Tox. 4, H302	
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	2.5-10%
EINECS: 202-013-9	X Xn R22; X Xi R36/38	
	① Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	

· Additional information:

For the wording of the listed risk phrases refer to section 16.

GISCODE: $RE\ 1\ (Comp.\ A+B)$

4 First aid measures

- · 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.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Water spray, dry powder, foam, carbon dioxide.
- · For safety reasons unsuitable extinguishing agents: Water jet.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus and protective suit.
- · Additional information

In combustion carbon dioxide, carbon monoxide and nitrogen oxides may be formed. Burning produces obnoxious and toxic fumes.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing.

Do not breathe vapors.

Keep away from sources of ignition - no smoking.

(Contd. on page 4)



Printing date 18.08.2014 Revision: 18.08.2014

Trade name: HADALAN VS-E 12E, Komp. B

(Contd. of page 3)

· 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.

Avoid seepage into the ground.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 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.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Open and handle container with care.

- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Keep containers closed tight.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Protect from frost, heat and direct sunlight.
- · Storage class: Storage Class 8 corrosive substances.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters

· Ingredients	with limit	values tha	t reauire	monitoring	at the	workplace:
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1477-55-0 m-phenylenebis(methylamine) (2.5-10%)

 $WEL \mid 0.1 \text{ mg} / m^3$

NL

100-51-6 Benzyl alcohol (10-25%)

WEL | IIb cf. section

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine (10-25%)

WEL | IIb cf. section

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

(Contd. on page 5)



Printing date 18.08.2014 Revision: 18.08.2014

Trade name: HADALAN VS-E 12E, Komp. B

(Contd. of page 4)

· Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

Filter type AX-P2 (organic vapors, particles).

· 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

Not applicable

None

· 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.

Hand protection materials: butyl rubber, nitrile rubber

· 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
- · Body protection: Protective clothing, safety shoes.

9 Physical and chemical properties

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- · General Information
- · Appearance:

Form: Fluid
Colour: yellowish
Odour: by amine

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 205 °C

· Flash point: $101 \, ^{\circ}C$

• Ignition temperature: 435 °C

· Self-igniting: Product is not selfigniting.

• Danger of explosion: Product does not present an explosion hazard.

• Density at 20 °C: ca. 1.0 g/cm^3

· Solubility in / Miscibility with

water: Not miscible or difficult to mix.

· Viscosity:

Dynamic at 25 °C: 250 mPas

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.

(Contd. on page 6)



Printing date 18.08.2014 Revision: 18.08.2014

Trade name: HADALAN VS-E 12E, Komp. B

(Contd. of page 5)

- · Conditions to avoid No further relevant information available.
- · Incompatible materials:

Strong acids and strong bases.

Strong oxidizing agents.

· Hazardous decomposition products: Carbon oxides, nitrogen oxides.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC5	· LD/LC50 values relevant for classification:		
9046-10	-0 Poly	oxypropylendiamin	
Oral	LD50	2855 mg/kg (rat)	
Dermal	LD50	2980 mg/kg (rab)	
2855-13	-2 3-ar	ninomethyl-3,5,5-trimethylcyclohexylamine	
Oral	LD50	1030 mg/kg (rat)	

- · Primary irritant effect:
- · on the skin: Caustic effect on skin and mucous membranes.
- · on the eye: Strong caustic effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful Corrosive Irritant

12 Ecological information

- · Toxicity
- $\cdot \textbf{\textit{Aquatic toxicity:}} \ \textit{No further relevant information available}.$
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Other information:

Avoid seepage into the ground.

Do not empty into drains.

Do not contaminate surface water.

- · Additional ecological information:
- · General notes:

Harmful to aquatic organisms

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.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

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Printing date 18.08.2014 Revision: 18.08.2014

Trade name: HADALAN VS-E 12E, Komp. B

(Contd. of page 6)

13 Disposal considerations

- · Waste treatment methods
- · Recommendation With HADALAN VS-E mix, component A and let harden.
- · European waste catalogue

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

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

Transport information	
· UN-Number · ADR, IMDG, IATA	2735
· UN proper shipping name · ADR	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (n. phenylenebis(methylamine))
· IMDG, IATA	AMINES, LIQUID, CORROSIVE, N.O.S. (n phenylenebis(methylamine))
· Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	8 Corrosive substances.
· Label	8
· Packing group	
· ADR, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Corrosive substances.
· Danger code (Kemler):	80
· EMS Number:	F- A , S - B
· Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (n. phenylenebis(methylamine)), 8, III

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations:
- · Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · Other regulations, limitations and prohibitive regulations

For activities involving exposure to uncured epoxy resins and contact via the skin or the respiratory tract regular preventive medical examinations are to be taken.

This product is subject to Directive 2004/42/EC.

(Contd. on page 8)



Printing date 18.08.2014 Revision: 18.08.2014

Trade name: HADALAN VS-E 12E, Komp. B

(Contd. of page 7)

EU limit value for this product is used in the manufacture condition: Cat A / j max. 500 g / l (2010). The product contains used in the finished state: max. 150 g / l VOC.

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

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

- H302 Harmful if swallowed.
- 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.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H400 Very toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.
- R20/22 Harmful by inhalation and if swallowed.
- R21/22 Harmful in contact with skin and if swallowed.
- R22 Harmful if swallowed.
- R34 Causes burns.
- R35 Causes severe burns.
- R36/38 Irritating to eyes and skin.
- R43 May cause sensitisation by skin contact.
- *R50 Very toxic to aquatic organisms.*
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· 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)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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 Harmonized 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- GB