

**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 MBH 12E, Komp. B
- **Article number:** 40377B
- **UFI:** WD40-Y0YH-U00R-JMX0
- **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, hardener component.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Sievert Baustoffe GmbH & Co. KG  
Mühlenschweg 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.

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GHS09 environment

Aquatic Acute 1      H400 Very toxic to aquatic life.

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

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GHS07

Acute Tox. 4      H302 Harmful if swallowed.

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

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- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.

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Trade name: **HADALAN MBH 12E, Komp. B**

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## · Hazard pictograms



GHS05   GHS07   GHS09

· 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

## · 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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 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.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

## · 2.3 Other hazards

## · 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 curing agents for epoxy resins.

## · Dangerous components:

CAS: 1173092-74-4	Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated 	50-75%
CAS: 84144-79-6	<i>N</i> -(2-Aminoethyl)-1,2-ethanediamine reaction products with glycidyl tolyl ether 	25-50%
CAS: 104-78-9 EINECS: 203-236-4	3-aminopropyldiethylamine 	2.5-10%
CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol 	2.5-10%
CAS: 111-40-0 EINECS: 203-865-4	2,2'-iminodiethylamine 	<1.0%

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

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### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

##### · **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

##### · **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. Then consult a doctor.

##### · **After swallowing:**

Call for a doctor immediately.

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

NOTE TO PHYSICIANS: Application of corticosteroid cream has been shown to be effective in the treatment of skin irritation.

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

##### · **Suitable extinguishing agents:**

Foam (alcohol resistant), carbon dioxide, dry chemical, dry sand, limestone powder.

#### · 5.2 Special hazards arising from the substance or mixture

Incomplete combustion carbon monoxide may arise. May evolve ammonia gas. May evolve toxic nitrogen oxides. Burning produces obnoxious and toxic fumes. personnel in wind direction has to be evacuated.

#### · 5.3 Advice for firefighters Use fire fighting measures that suit the environment.

##### · **Protective equipment:**

No special measures required.

Avoid contact with skin. Face protection. Use personal protective equipment. In case of fire, if necessary, wear self-contained breathing apparatus.

##### · **Additional information**

Run-off water from getting into sewage or water courses of fire fighting.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### SECTION 6: Accidental release measures

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

#### · 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).

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.

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See Section 13 for disposal information.

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### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
 Ensure good ventilation/exhaustion at the workplace.  
 Prevent formation of aerosols.  
 Store in a cool, dry place.
- **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 in original container.
- **Information about storage in one common storage facility:**  
 Do not store together with acids.  
 Store away from foodstuffs, beverages and feed.
- **Further information about storage conditions:**  
 Keep container tightly sealed.  
 Protect from frost.
- **Storage class:** VCI: 8
- **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:**

<b>100-51-6 Benzyl alcohol (2.5-10%)</b>	
WEL	Long-term value: 22 mg / m <sup>3</sup> , 5 ml / m <sup>3</sup> 2 (I); DFG, H, Y, 11

- **DNELs**

**Benzyl alcohol**

Worker inhalation long-term systemic effects; 22 mg / m<sup>3</sup> ECHA

Worker inhalation Acute systemic effects; 110 mg / m<sup>3</sup> 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 / m<sup>3</sup> ECHA

Consumer inhalation Acute systemic effects; 27 mg / m<sup>3</sup> 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 / m<sup>3</sup> irritation of the Respiratory tract.

Worker inhalation short-term - locally; 2.34 mg / m<sup>3</sup> Irritation of the respiratory tract.

Average population inhalation Long-term systemic effects; 0.29 mg / m<sup>3</sup>

Repeated dose toxicity worker inhalation Long-term systemic effects; 1.17 mg / m<sup>3</sup>

Repeated dose toxicity Average population short-term inhalation - local; 0.29 mg / m<sup>3</sup>

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 / m<sup>3</sup> ECHA

Worker inhalation Acute systemic effects; 92.1 mg / m<sup>3</sup> ECHA

Worker inhalation long-term - local effects; 0.87 mg / m<sup>3</sup> ECHA

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Worker inhalation Acute local effects; 2.6 mg / m<sup>3</sup> 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 / cm<sup>2</sup> ECHA  
 Consumer inhalation long-term systemic effects; 4.6 mg / m<sup>3</sup> ECHA  
 Consumer inhalation Acute systemic effects; 27.5 mg / m<sup>3</sup> 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, sewage 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

Diethylenetriamine

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

Sporadic releases 0.32 mg / l, wastewater 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.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

If good ventilation is not required. In inadequately ventilated places and during spray processing, wear respiratory protection. A/P2 filter.

· **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.

Protective gloves made of nitrile with a layer thickness of at least 0.4 mm reagen (Durchdringungszeit > 480 min see also www.gisbau.de).

· **Penetration time of glove material**

The exact break through 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:** Impervious clothing.

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### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:** fluently

· **Colour:** yellowish

· **Odour:** by amine.

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· **Melting point/freezing point:** Undetermined.

· **Initial boiling point and boiling range:** 201 °C

· **Flash point:** 101 °C

· **Flammability (solid, gas):** Not applicable.

· **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 at 21 °C:** >0.01 hPa

· **Density at 20 °C:** 1 g/cm<sup>3</sup>

· **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 at 20 °C:** 400 mPas

· **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** No dangerous reactions known.

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:**

Prior to strongly acidic and alkaline materials as well as oxidants in order to avoid exothermic reactions.

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· **10.6 Hazardous decomposition products:**

When heated formation of carbon monoxide, carbon dioxide, nitrogen oxides, ammonia, aldehyde, inflammatory hydrocarbon fragments possible.

### 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 (carcinogenicity, 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.

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

### SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	UN2735
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	2735 AMINES, LIQUID, CORROSIVE, N.O.S., ENVIRONMENTALLY HAZARDOUS AMINES, LIQUID, CORROSIVE, N.O.S.
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul> <div style="display: flex; align-items: center; gap: 10px;">   </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	8 Corrosive substances. 8
<ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul> <div style="display: flex; align-items: center; gap: 10px;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	8 Corrosive substances. 8
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	III
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR):</b></li> </ul>	No Symbol (fish and tree)
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> <li>· <b>Segregation Code</b></li> </ul>	Warning: Corrosive substances. 80 F-A,S-B A SG35 Stow "separated from" SGG1-acids
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> </ul>	3 E
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> </ul>	5L

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· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S., 8, III, 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.  
WGK 1 (self-classification): slightly hazardous to 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 checkups are causing.  
The product is subject RL 2004/42/EG.EU-Grenzwert 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. 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

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*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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