

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

Printing date 20.07.2020

Revision: 20.07.2020

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

- **1.1 Product identifier**
- **Trade name:** HADALAN SBH 13E, Komp. B
- **Article number:** 40726B
- **UFI:** J580-80C0-A00H-PNJU
- **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 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. 1B      H314 Causes severe skin burns and eye damage.

Eye Dam. 1      H318 Causes serious eye damage.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

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.

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## · Hazard pictograms



GHS05   GHS07   GHS09

· Signal word *Danger*

## · Hazard-determining components of labelling:

3-aminomethyl-3,5,5-trimethylcyclohexylamine

*m*-phenylenebis(methylamine)

phenol, styrenated

salicylic acid

## · Hazard statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

## · Precautionary statements

P260 Do not breathe 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: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	25-50%
CAS: 61788-44-1	phenol, styrenated ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
CAS: 1477-55-0 EINECS: 216-032-5	<i>m</i> -phenylenebis(methylamine) ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	10-25%
CAS: 69-72-7 EINECS: 200-712-3	salicylic acid ⚠ Repr. 2, H361d; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	<2.5%

## · Additional information:

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

GISCODE: RE 1 (resin + hardener)

## SECTION 4: First aid measures

## · 4.1 Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

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- **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.  
Immediately rinse with water.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.  
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.  
not applicable, product is not flammable  
Foam (alcohol resistant), carbon dioxide, dry chemical, dry sand, limestone powder.
- **For safety reasons unsuitable extinguishing agents:** Water jet.
- **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.  
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**  
Mount respiratory protective device.  
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.  
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.
- **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 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:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### 1477-55-0 m-phenylenebis(methylamine) (10-25%)

WEL as vapor and aerosol; see section IV

- **DNELs**
- Salicylic acid
- Workers, skin: Long-term - systemic effects 2 mg / kg
- Workers, skin: systemic effects
- Workers, inhalation: Long-term - systemic effects 16 mg / m<sup>3</sup>
- Workers, inhalation: systemic effects 16 mg / m<sup>3</sup>
- Consumer, Oral: Acute - systemic effects 4 mg / kg
- Consumer, Oral: Systemic Effects
- Consumer, skin: Long-term - systemic effects 1 mg / kg
- Consumer, skin: systemic effects
- Consumer, Inhalation: Long-term - systemic effects: 4 mg / m<sup>3</sup>
- Consumers, inhalation: systemic effects 4 mg / m<sup>3</sup>
- Consumer, Oral: Long-term - systemic effects: 1 mg / kg
- Consumer, Oral: Systemic Effects
- Consumers, inhalation: Long-term - local effects 0.2 mg / m<sup>3</sup>
- Consumer, Inhalation: Local effects 0.2 mg / m<sup>3</sup>
- 3-aminomethyl-3,5,5-trimethylcyclohexylamine
- Workers, inhalation: systemic effects, short-term exposure 20.1 mg / m<sup>3</sup>
- Workers, inhalation: local effects, short-term exposure 20.1 mg / m<sup>3</sup>
- Consumer, Oral: Systemic effects, long-term exposure 0.526 mg / kg body weight / day
- **PNECs**
- salicylic acid
- Fresh water 0.2 mg / l
- Seawater 0.02 mg / l
- Fresh water - temporarily 1 mg / l
- Sewage treatment plant 162 mg / l
- Fresh water sediment 1.42 mg / kg
- Marine sediment 0.142 mg / kg
- Soil 0.166 mg / kg

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3-aminomethyl-3,5,5-trimethylcyclohexylamine

Fresh water 0.06 mg / l

Seawater 0.006 mg / l

Freshwater - at times 0.23 mg / l

Sewage treatment plant 3.18 mg / l

Freshwater sediment 5.784 mg / l

Marine sediment 0.578 mg / kg

Soil 1.121 mg / kg

· **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.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Not required with good ventilation. At insufficiently ventilated workplaces and at the Spray treatment Apply respiratory protection. Filter A / P

· **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

Protective nitrile gloves with a layer thickness of at least 0.4 mm reagen (penetrating > 480 Min. See also [www.gisbau.de](http://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 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.

## SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: liquid

Colour: yellowish

· **Odour:** by amine

· **Odour threshold:** Not determined.

· **pH-value at 20 °C:** >7

· **Change in condition**

Melting point/freezing point: Undetermined.

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<b>Initial boiling point and boiling range:</b> 265 °C	
· <b>Flash point:</b>	110 °C
· <b>Flammability (solid, gas):</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure at 25 °C:</b>	~0 hPa
· <b>Density at 20 °C:</b>	1 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water at 20 °C:</b>	teilweise mischbar g/l
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic at 20 °C:</b>	600 mPas
<b>Kinematic:</b>	Not determined.
· <b>9.2 Other information</b>	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:**  
Keep away from strongly acidic and alkaline materials as well as oxidizing agents, to avoid exothermic reaction.
- **10.3 Possibility of hazardous reactions**  
In the case of heating, formation of carbon monoxide, carbon dioxide, nitrogen oxides, ammonia, aldehyde, flammable hydrocarbon fragments possible.
- **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 oral toxicity - Product:  
LD50 (rat):> 2,000 mg / kg  
Method: The following toxicological data were obtained from tests of products of similar composition accepted.  
Acute inhalation toxicity - Product:  
Acute toxicity estimate:> 5 mg / l Exposure time: 4 h  
Test atmosphere: dust / mist  
Method: Calculation method  
Acute dermal toxicity - Product:  
Acute toxicity estimate:> 2,000 mg / kg  
Method: Calculation method

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- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

**2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

Oral	LD50	1,030 mg/kg (rat)
Dermal	LD50	1,840 mg/kg (rab)

**61788-44-1 phenol, styrenated**

Oral	LD50	480 mg/kg (rat)
Dermal	LD50	>5,010 mg/kg (rab)

**1477-55-0 m-phenylenebis(methylamine)**

Oral	LD50	1,040 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rab)
Inhalative	LC50/4 h	2.4 mg/l (rat)

- **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:** 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.

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

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.

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### 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

- |   |  |
|---|--|
| · <b>14.1 UN-Number</b><br>· <b>ADR, IMDG, IATA</b>   | UN3267   |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR</b><br><br>· <b>IMDG</b><br><br>· <b>IATA</b>   | 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.<br>(ISOPHORONEDIAMINE, m-phenylenebis(methylamine)),<br>ENVIRONMENTALLY HAZARDOUS<br><br>CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.<br>(ISOPHORONEDIAMINE, m-phenylenebis(methylamine)),<br>MARINE POLLUTANT<br><br>CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.<br>(ISOPHORONEDIAMINE, m-phenylenebis(methylamine)) |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR, IMDG</b>  |  |
|   |  |
| · <b>Class</b><br>· <b>Label</b>  | 8 Corrosive substances.<br>8   |
| · <b>IATA</b>   |  |
|   |  |
| · <b>Class</b><br>· <b>Label</b>  | 8 Corrosive substances.<br>8   |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>   | I  |
| · <b>14.5 Environmental hazards:</b>  |  |
| · <b>Marine pollutant:</b>  | Symbol (fish and tree)   |
| · <b>Special marking (ADR):</b>   | Symbol (fish and tree)   |
| · <b>14.6 Special precautions for user</b><br>· <b>Hazard identification number (Kemler code):</b><br>· <b>EMS Number:</b><br>· <b>Segregation groups</b> | Warning: Corrosive substances.<br>88<br>F-A,S-B<br>Alkalis   |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>  | Not applicable.  |

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· **Transport/Additional information:**· **ADR**· **Limited quantities (LQ)**

0

· **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

· **Transport category**

1

· **Tunnel restriction code**

E

· **IMDG**· **Limited quantities (LQ)**

0

· **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

· **UN "Model Regulation":**UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC,  
N. O. S. (ISOPHORONEDIAMINE, M-  
PHENYLENEBIS(METHYLAMINE)), 8, I,  
ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Directive 2012/18/EU**· **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· **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 with the skin or the  
Respiratory tract are to be arranged for regular preventive examinations.

The product is subject to the RL 2004/42 / EG.EU limit value of this product is ready to use:

Cat A / j max. 500 g / l (2010). When ready for use, the product contains: 0 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**

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.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H361d Suspected of damaging the unborn child.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful 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

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*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)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

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

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

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

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

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

*Skin Sens. 1: Skin sensitisation – Category 1*

*Repr. 2: Reproductive toxicity – Category 2*

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

*Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*

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