

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

Printing date 02.07.2020

Revision: 02.07.2020

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

- **1.1 Product identifier**
- **Trade name:** HADALAN GVS-HQ 12E, Komp. B
- **Article number:** 40643B
- **UFI:** XF60-40J2-600M-FTWJ
- **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**
2-component primer, protective coating and leveling compound based on epoxy resin, component B (hardener).
- **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:**
Giftnformationszentrum 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.

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· Hazard pictograms



GHS05 GHS07 GHS09

· Signal word *Danger*

· Hazard-determining components of labelling:

Carbomonozyklische, alkylierte Gemische aus Poly-aza-Alkanen, hydriert
 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 dust/fume/gas/mist/vapours/spray.
 P262 Do not get in eyes, on skin, or on clothing.
 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.
 P332+P313 If skin irritation 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: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 1173092-74-4	Carbomonozyklische, alkylierte Gemische aus Poly-aza-Alkanen, hydriert 	50-100%
CAS: 84144-79-6	N-(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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GISCODE: RE 1 (resin + hardener)

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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.

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:**

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**

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

· **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:**

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**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
- **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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **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 / m ³ , 5 ml / m ³ 2 (I); DFG, H, Y, 11
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· **DNELs**

Benzyl alcohol

Long-term inhalation worker - systemic effects; 22 mg / m³ ECHA

Worker inhalation Acute systemic effects; 110 mg / m³ ECHA

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

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

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

Consumers by inhalation Acute systemic effects; 27 mg / m³ ECHA

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

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, inhalative, long-term - local effects; 1.17 mg / m³ irritation of the

Respiratory tract.

Workers inhaled briefly - locally; 2.34 mg / m³ respiratory tract irritation.

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

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

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

Average population eyes local effect; No data is available

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

Diethylene triamine

Long-term inhalation worker - systemic effects; 15.4 mg / m³ ECHA

Worker inhalation Acute systemic effects; 92.1 mg / m³ ECHA

Long-term inhalation worker - local effects; 0.87 mg / m³ ECHA

Worker inhalation Acute local effects; 2.6 mg / m³ ECHA

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

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

Long-term inhalation - systemic effects; 4.6 mg / m³ ECHA

Consumers by inhalation Acute systemic effects; 27.5 mg / m³ ECHA

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

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· **PNECs***Benzyl alcohol**Fresh water 1 mg / l, sea water 0.1 mg / l**Sporadic release 2.3 mg / l, wastewater treatment plant (STP) 39 mg / l**Freshwater sediment 5.27 mg / kg dry weight, seawater sediment 0.527 mg / kg dry weight**Soil 0.456 mg / kg dry weight**3-aminopropyldiethylamine**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**Diethylene triamine**Fresh water 0.56 mg / l, sea water 0.056 mg / l**Intermittent release 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:***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.*· **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*· **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***SECTION 9: Physical and chemical properties**· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:****Form:** *Solid***Colour:** *According to product specification*· **Odour:** *Characteristic*· **Odour threshold:** *Not determined.*· **pH-value:** *Not applicable.*

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· Change in condition Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	201 °C
· Flash point:	101 °C
· Flammability (solid, gas):	Not determined.
· 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 hPa
· Density at 20 °C:	1 g/cm ³
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Insoluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Dynamic:	Not applicable.
Kinematic:	Not applicable.
· 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:** 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.

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

SECTION 14: Transport information

- | | |
|---------------------------------------|---|
| · 14.1 UN-Number | |
| · ADR, IMDG, IATA | UN2735 |
| · 14.2 UN proper shipping name | |
| · ADR | 2735 AMINES, LIQUID, CORROSIVE, N.O.S., ENVIRONMENTALLY HAZARDOUS |
| · IMDG, IATA | AMINES, LIQUID, CORROSIVE, N.O.S. |

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· 14.3 Transport hazard class(es)	
· ADR	
	
· Class	8 Corrosive substances.
· Label	8
· IMDG, IATA	
	
· Class	8 Corrosive substances.
· Label	8
· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	
· Hazard identification number (Kemler code):	Warning: Corrosive substances.
· EMS Number:	80
· Stowage Category	F-A,S-B
· Segregation Code	A
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	
Not applicable.	
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
· Transport category	3
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
· UN "Model Regulation":	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**
- **National regulations:**
- **Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.**

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· **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: 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