

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

Printing date 10.02.2021

Revision: 10.07.2020

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

- **1.1 Product identifier**
- **Trade name:** HADALAN Pripor 12E, Komp. A
- **Article number:** 40623
- **UFI:** TM60-40WU-T00M-SH2P
- **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, pore-filling primer based on epoxy resin, component A (resin).
- **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**



GHS09 environment

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



GHS07

|               |                                           |
|---------------|-------------------------------------------|
| Skin Irrit. 2 | H315 Causes skin irritation.              |
| Eye Irrit. 2  | H319 Causes serious eye irritation.       |
| 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.
- **Hazard pictograms**



GHS07



GHS09

- **Signal word** Warning

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· **Hazard-determining components of labelling:**

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)  
formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol  
oxirane, mono[(C12-14-alkyloxy)methyl] derivs

· **Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H411 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 / eye protection / face protection.  
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.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

Contains epoxy constituents. May produce an allergic reaction.

· **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: 25068-38-6<br>NLP: 500-033-5    | reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)<br>⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | 50-100% |
| CAS: 9003-36-5                       | formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol<br>⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317                                   | 10-25%  |
| CAS: 68609-97-2<br>EINECS: 271-846-8 | oxirane, mono[(C12-14-alkyloxy)methyl] derivs<br>⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317                                                                                                     | 10-25%  |

· **Additional information:**

For the wording of the listed hazard phrases refer to section 16.  
GHS CODE: RE 1 (resin + hardener)

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **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.

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**Trade name: HADALAN Pripor 12E, Komp. A**

- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

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### 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** No further relevant information available.
- **5.3 Advice for firefighters** In case of fire: breathing protection with independent air supply.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Keep away non-protected persons. Ensure adequate ventilation.
- **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).
- **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** Only store in original containers.
- **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:** Keep cool and dry.
- **Information about storage in one common storage facility:** Store separate from eatables.
- **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

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.
- **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.
- **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 and skin.
- **Protection of hands:**  
Protective gloves

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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:**

|                |                                  |
|----------------|----------------------------------|
| <b>Form:</b>   | Viscous                          |
| <b>Colour:</b> | Different according to colouring |
|                | Different according to colouring |

· **Odour:** Weak, characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

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

**Initial boiling point and boiling range:** >200 °C

· **Flash point:** 120 °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:** Not determined.

· **Density at 20 °C:** 1.15 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:** Not determined.

**Kinematic:** Not determined.

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· **Solvent content:**

|                        |         |
|------------------------|---------|
| <b>Solids content:</b> | 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**  
Exothermic reactions with amines. Work quickly after adding the hardener, since at high curing temperatures can be achieved.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
Keep away from highly acidic and alkaline materials, oxidizing agents to avoid exothermic reactions.
- **10.6 Hazardous decomposition products:**  
At higher temperatures may produce carbon dioxide, carbon monoxide and nitrogen oxides.

**SECTION 11: Toxicological information**

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

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

|                                                                                                                      |  |  |
|----------------------------------------------------------------------------------------------------------------------|--|--|
| <b>25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)</b> |  |  |
|----------------------------------------------------------------------------------------------------------------------|--|--|

|               |             |                    |
|---------------|-------------|--------------------|
| <b>Dermal</b> | <b>LD50</b> | >2,000 mg/kg (rab) |
|               |             | >2,000 mg/kg (rat) |

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **Additional toxicological information:**
- **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

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- **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.
  - 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.

### 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

- |                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>                                | UN3082                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <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> | <p>3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700), phenol, polymer with formaldehyde, glycidyl ether)</p> <p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700), phenol, polymer with formaldehyde, glycidyl ether)</p> |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, IATA</b></li> </ul>                     | <div style="display: flex; align-items: center;"> </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>                                                                                                                                                                                                                                                                                          |
| <p>9 Miscellaneous dangerous substances and articles.</p> <p>9</p>                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>                                                                            | <div style="display: flex; align-items: center;"> </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> </ul>                                                                                                                                                                                                                                                                                                                  |
| <p>9 Miscellaneous dangerous substances and articles.</p>                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|                                                                                                                                 |                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| · <b>Label</b>                                                                                                                  | 9                                                                                                                                                                                                                           |
| · <b>14.4 Packing group</b><br>· <b>ADR</b>                                                                                     | III                                                                                                                                                                                                                         |
| · <b>14.5 Environmental hazards:</b><br>· <b>Special marking (ADR):</b><br>· <b>Special marking (IATA):</b>                     | Symbol (fish and tree)<br>Symbol (fish and tree)                                                                                                                                                                            |
| · <b>14.6 Special precautions for user</b><br>· <b>Hazard identification number (Kemler code):</b><br>· <b>Stowage Category</b> | Warning: Miscellaneous dangerous substances and articles.<br>90<br>A                                                                                                                                                        |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>                                                | Not applicable.                                                                                                                                                                                                             |
| · <b>Transport/Additional information:</b>                                                                                      |                                                                                                                                                                                                                             |
| · <b>ADR</b><br>· <b>Limited quantities (LQ)</b><br>· <b>Excepted quantities (EQ)</b>                                           | 5L<br>Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml                                                                                                      |
| · <b>Transport category</b><br>· <b>Tunnel restriction code</b>                                                                 | 3<br>E                                                                                                                                                                                                                      |
| · <b>UN "Model Regulation":</b>                                                                                                 | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT = 700), PHENOL, POLYMER WITH FORMALDEHYDE, GLYCIDYL ETHER), 9, III |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **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: 1 g / l VOC.
- **VOC (EU)** 1 g/l
- **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.

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· **Relevant phrases**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

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)

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

ICAO: International Civil Aviation Organisation

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

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

Skin Sens. 1: Skin sensitisation – Category 1

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

GB



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

- **1.1 Product identifier**
- **Trade name:** HADALAN Pripor 12E, Komp. B
- **Article number:** 40623B
- **UFI:** CQ60-N0M8-4003-EUNR
- **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, pore-filling primer based on epoxy resin, component B (hardener)
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Siefert 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@siefert.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 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  
 3-aminopropyl-diethylamine  
 formaldehyde, oligomeric reaction products with phenol  
 1,3-benzenedimethanamine, N-(2-phenylethyl) derivs.

· **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**

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.  
 P310 Immediately call a POISON CENTER/doctor.  
 P321 Specific treatment (see on this label).  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **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 hardener for epoxy resins· **Dangerous components:**

|                                    |                                                                                                                                                                                             |         |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CAS: 1173092-74-4                  | Carbomonozyklische, alkylierte Gemische aus Poly-aza-Alkanen, hydriert<br>⚠ Skin Corr. 1C, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317 | 50-100% |
| CAS: 9003-35-4                     | formaldehyde, oligomeric reaction products with phenol<br>⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412                                                                 | 10-25%  |
| CAS: 104-78-9<br>EINECS: 203-236-4 | 3-aminopropyl-diethylamine<br>⚠ Flam. Liq. 3, H226; ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317                                                     | 2.5-10% |
| CAS: 404362-22-7                   | 1,3-benzenedimethanamine, N-(2-phenylethyl) derivs.<br>⚠ STOT RE 2, H373; ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317 | 2.5-10% |

· **Additional information:**

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

#### · 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.

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- **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:** Keep cool and dry.
- **Information about storage in one common storage facility:** Store separate from eatables
- **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

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.
- **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.
- **DNELs**  
3-aminopropyl-diethylamine  
Average population Oral Long-term - systemic effects; 0.08 mg / kg body weight / day  
Repeated Dose Toxicity Workers Dermal Long Term - Systemic Effects; 0.16 mg / kg  
Body weight / day  
Repeated dose toxicity, inhalative, long-term - local effects; 1.17 mg / m<sup>3</sup>  
Respiratory tract irritation Workers inhalation briefly - locally; 2.34 mg / m<sup>3</sup>  
Respiratory tract irritation Average population inhalation Long-term - systemic effects; 0.29 mg / m<sup>3</sup>  
Repeated dose toxicity inhalative long-term - systemic effects; 1.17 mg / m<sup>3</sup>  
Repeated dose toxicity Average short-term inhalation population - 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)  
Products from reactions of 1,3-benzenedimethanamine with styrene  
Workers Dermal Long Term - Systemic Effects; 0.05 mg / kg body weight / day  
Repeated dose toxicity, inhalative, long-term - local effects; 0.004 mg / m<sup>3</sup>  
Repeated Dose Toxicity Average Population Dermal Long Term - Systemic Effects; 0.03 mg / kg  
Body weight / day  
Repeated dose toxicity Average inhalation population Long term - local effects; 0.002 mg / m<sup>3</sup>  
Repeated dose toxicity inhalative long-term - systemic effects; 0.18 mg / m<sup>3</sup>  
Repeated dose toxicity Average population, inhalative Long-term - systemic effects; 0.04 mg / m<sup>3</sup>  
Repeated dose toxicity Worker eyes Local effect High risk (no threshold derived)  
Average population eyes local effect; High risk (no threshold derived)  
Average population Oral Long-term - systemic effects; 0.03 mg / kg body weight / day toxicity repeated doses
- **PNECs**  
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  
Products from reactions of 1,3-benzenedimethanamine with styrene  
Sediment (sea water) 0.014 mg / kg Aquatic (sea water) 0 mg / l Sediment (fresh water) 0.14 mg / kg  
Sewage treatment plant 1 mg / l  
Aquatic (fresh water) 0.001 mg / l predator 0.167 mg / kg oral  
Soil 0.028 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.

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*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.*

*Protective gloves made of nitrile with a layer thickness of min. 0.4 mm reagen (Durchdringungszeit > 480*

*Min. Wwww.gisbau.de see also).*

· **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:** Fluid

**Colour:** Light yellow

· **Odour:** Amine-like

· **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 hPa

· **Density at 20 °C:** 1.01 g/cm<sup>3</sup>

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

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|                                                  |                                            |
|--------------------------------------------------|--------------------------------------------|
| · <b>Solubility in / Miscibility with water:</b> | Not miscible or difficult to mix.          |
| · <b>Partition coefficient: n-octanol/water:</b> | Not determined.                            |
| · <b>Viscosity:</b>                              |                                            |
| <b>Dynamic at 20 °C:</b>                         | 500 mPas                                   |
| <b>Kinematic:</b>                                | Not determined.                            |
| · <b>Solvent content:</b>                        |                                            |
| <b>Solids content:</b>                           | 0.0 %                                      |
| · <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:** 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.

### 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.
- **Additional toxicological information:**
- **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.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Also poisonous for fish and plankton in water bodies.

· **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.  
(Carbomonozyklische, alkylierte Gemische aus Poly-aza-Alkanen, hydriert, 1,3-benzenedimethanamine, N-(2-phenylethyl) derivs.), ENVIRONMENTALLY HAZARDOUS

· **IMDG**

AMINES, LIQUID, CORROSIVE, N.O.S.  
(Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated, 1,3-benzenedimethanamine, N-(2-phenylethyl) derivs.), MARINE POLLUTANT

· **IATA**

AMINES, LIQUID, CORROSIVE, N.O.S.  
(Carbomonocyclic alkylated mixtures of poly-aza-alkanes, hydrogenated, 1,3-benzenedimethanamine, N-(2-phenylethyl) derivs.)

· **14.3 Transport hazard class(es)**

· **ADR, IMDG**



· **Class**

8 Corrosive substances.

· **Label**

8

· **IATA**



· **Class**

8 Corrosive substances.

· **Label**

8

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|                                                                           |                                                                                                                                                                                                          |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| · 14.4 Packing group                                                      | I                                                                                                                                                                                                        |
| · ADR, IMDG, IATA                                                         |                                                                                                                                                                                                          |
| · 14.5 Environmental hazards:                                             |                                                                                                                                                                                                          |
| · Marine pollutant:                                                       | Symbol (fish and tree)                                                                                                                                                                                   |
| · Special marking (ADR):                                                  | Symbol (fish and tree)                                                                                                                                                                                   |
| · 14.6 Special precautions for user                                       | Warning: Corrosive substances.                                                                                                                                                                           |
| · Hazard identification number (Kemler code):                             | 88                                                                                                                                                                                                       |
| · EMS Number:                                                             | F-A,S-B                                                                                                                                                                                                  |
| · Segregation groups                                                      | Alkalis                                                                                                                                                                                                  |
| · Stowage Category                                                        | A                                                                                                                                                                                                        |
| · Segregation Code                                                        | SG35 Stow "separated from" SGG1-acids                                                                                                                                                                    |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable.                                                                                                                                                                                          |
| · Transport/Additional information:                                       |                                                                                                                                                                                                          |
| · ADR                                                                     |                                                                                                                                                                                                          |
| · Limited quantities (LQ)                                                 | 0                                                                                                                                                                                                        |
| · Excepted quantities (EQ)                                                | Code: E0<br>Not permitted as Excepted Quantity                                                                                                                                                           |
| · Transport category                                                      | 1                                                                                                                                                                                                        |
| · Tunnel restriction code                                                 | E                                                                                                                                                                                                        |
| · IMDG                                                                    |                                                                                                                                                                                                          |
| · Limited quantities (LQ)                                                 | 0                                                                                                                                                                                                        |
| · Excepted quantities (EQ)                                                | Code: E0<br>Not permitted as Excepted Quantity                                                                                                                                                           |
| · UN "Model Regulation":                                                  | UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (CARBOMONOZYKLISCHE, ALKYLIERTE GEMISCHE AUS POLY-AZA-ALKANEN, HYDRIERT, 1,3-BENZENEDIMETHANAMINE, N-(2-PHENYLETHYL) DERIVS.), 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
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category E2 Hazardous to the water
- Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations:
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly 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: 1 g / l VOC.
- VOC (EU) 1 g/l
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

GB

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### 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.  
H319 Causes serious eye irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.  
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.  
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  
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  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
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  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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