

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

- **Product identifier**
- **Trade name:** HADALAN EBG 13E, Komp. B
- **Article number:** 50325 A
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Epoxy resin dispersion, bonding agent and primer.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Heinrich Hahne GmbH & Co. KG
Heinrich-Hahne-Weg 11
45711 Datteln Tel.: 02363/5663-0
- **Further information obtainable from:**
Abteilung: Produktsicherheit
Tel.: 02363 5663-0
EMail: info@hahne-bautenschutz.de
- **Emergency telephone number:**
Gif tinformationszentrum Nord (GIZ Nord) Universität Göttingen,
Tel.: 0551-19240

2 Hazards identification

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



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.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
- **Hazard description:**

Xi Irritant

N Dangerous for the environment

- **Information concerning particular hazards for human and environment:**

R 36/38 Irritating to eyes and skin.

R 43 May cause sensitisation by skin contact.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Contains epoxy constituents. May produce an allergic reaction.

- **Classification system:**

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

- **Label elements**

- **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

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· **Code letter and hazard designation of product:**



Xi Irritant
N Dangerous for the environment

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

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
Bisphenol-F Epichlorhydrinharz Reaktionspr. Phenol-Formaldehyd Novolak mit Epichlorhydrin oxirane, mono[(C12-14-alkyloxy)methyl] derivs

· **Risk phrases:**

36/38 Irritating to eyes and skin.
43 May cause sensitisation by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Safety phrases:**

24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
27 Take off immediately all contaminated clothing.
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

· **Special labelling of certain preparations:** Contains epoxy constituents. May produce an allergic reaction.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 25068-38-6 NLP: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) Xi R36/38; Xi R43; N R51/53 Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	50-100%
CAS: 28064-14-4	Bisphenol-F Epichlorhydrinharz Reaktionspr. Phenol-Formaldehyd Novolak mit Epichlorhydrin Xi R36/38; Xi R43; N R51/53 Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	10-25%
CAS: 68609-97-2 EINECS: 271-846-8	oxirane, mono[(C12-14-alkyloxy)methyl] derivs Xi R38; Xi R43 Skin Irrit. 2, H315; Skin Sens. 1, H317	10-25%

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

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4 First aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
Use fire extinguishing methods suitable to surrounding conditions.
Foam (alcohol resistant), carbon dioxide, dry powder, water spray.
- **For safety reasons unsuitable extinguishing agents:** Water jet.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters** In case of fire: breathing protection with independent air supply.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Keep unprotected persons away.
Wear protective gloves, goggles and suitable protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Store only in unopened original container.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in cool, dry place.
- **Information about storage in one common storage facility:** Store separate from eatables.
- **Further information about storage conditions:** Protect from frost.
- **Storage class:** VCI: 10
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values 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.

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- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required if good ventilation.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Wear safety gloves made of nitrile rubber with a thickness < 0.4 mm (penetration time > 480 min - see also www.gisbau.de)
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed goggles.
- **Body protection:** Protective clothing.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Fluid
Colour:	colorless
Odour:	weak, charakteristical
- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 200°C
- **Flash point:** 120°C
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density at 20°C:** 1.12 g/cm³
- **Solubility in / Miscibility with water:** Insoluble.
- **Solvent content:**

Solids content:	100.0 %
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- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

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- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
At higher temperatures may produce carbon dioxide, carbon monoxide and nitrogen oxides.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- **Toxicity**
- Data for component: reaction product: bisphenol A epoxy resin medium
Molecular weight of 700 pounds
The product is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg / l for the sensitive species).
- Acute and chronic toxicity to fish
LC50 Rainbow trout (*Oncorhynchus mykiss*), semi-static, 96 h: 2 mg / l
Acute toxicity to aquatic invertebrates
EC50 *Daphnia magna* (water flea), static, 48 h, immobilization: 1.8 mg / l
Toxicity to aquatic plants
ErC50, *Scenedesmus capricornutum* (Freshwater Algae), static, inhibition of Growth rate, 72 h: 11 mg / l
Toxicity to microorganisms
IC50; bacteria, 18 h: > 42.6 mg / l
Chronic toxicity values for aquatic invertebrates
Daphnia magna (water flea), semi-static, 21 d, number of offspring, NOEC: 0.3 mg / l
Data for component: oxirane, mono [(C12-14-alkyloxy) methyl] derivatives
The material is not harmful to aquatic organisms (LC50/EC50/IC50/LL50/EL50 > 100 mg / L in most sensitive species).
- Acute and chronic toxicity to fish
LC50 Rainbow trout (*Oncorhynchus mykiss*), static, 96 h: > 5,000 mg / l
LC0, Bluegill (*Lepomis macrochirus*), static, 96 h: 1.800 mg / l
Toxicity to aquatic plants
EbC50, green alga *Selenastrum capricornutum* (formerly known as *Selenastrum capricornutum*) growth inhibition (reduction in cell density), 72 h: 843 mg / l
NOEC, green alga *Selenastrum capricornutum* (formerly known as *Selenastrum capricornutum*), growth inhibition (decrease in cell density), 72 h: 500 mg / l
Data for Component: reaction product: bisphenol-F epoxy resin medium
Molecular weight of 700 pounds
For similar / s material /: This product is toxic to aquatic organisms (LC50/EC50/IC50 1-10 mg / L in most sensitive species).
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.

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- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation**
For disposal, local regulations are observed. Liquid component of a suitable incineration plant.
Product can be disposed of together with household garbage after curing.
- | | |
|-----------------------------------|---|
| · European waste catalogue | |
| 08 01 11* | waste paint and varnish containing organic solvents or other dangerous substances |
- **Uncleaned packaging:**
 - **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|--------------------------|------|
| · UN-Number | |
| · ADR, IMDG, IATA | 3082 |
- | | |
|----------------------------------|--|
| · UN proper shipping name | |
| · ADR | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| · IMDG, IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
- | | |
|-------------------------------------|---|
| · Transport hazard class(es) | |
| · ADR | |
| |   |
| · Class | 9 Miscellaneous dangerous substances and articles. |
| · Label | 9 |
-
- | | |
|----------------|--|
| · IMDG | |
| · Class | 9 Miscellaneous dangerous substances and articles. |
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- | | |
|----------------|---|
| · IATA | |
| |  |
| · Class | 9 Miscellaneous dangerous substances and articles. |

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· Packing group	
· ADR	III
· Environmental hazards:	
· Marine pollutant:	No
· Special marking (ADR):	Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
· Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
· Danger code (Kemler):	90
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Tunnel restriction code	E
· UN "Model Regulation":	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
For activities involving exposure to uncured epoxy resins and contact on the skin or respiratory are causing regular preventive medical examinations.
This product is subject to the Directive 2004/42/EC.
EU limit value of this product is in ready to use condition: 140 g / l (2010). The product contains: max. 5 g / l VOC.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
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.
- **R-phrases**
R36/38 Irritating to eyes and skin.
R38 Irritating to skin.
R43 May cause sensitisation by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organization
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals