

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

Printing date 12.11.2020

Revision: 12.11.2020

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

- **1.1 Product identifier**
- **Trade name: HADALAN ESD-G 12E, Komponente B**
- **UFI: 74V0-30VR-000W-V3C3**
- **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-comp. Epoxy resin as ESD primer, comp. B
- **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. 1B      H314 Causes severe skin burns and eye damage.  
Eye Dam. 1      H318 Causes serious eye damage.



GHS07

Acute Tox. 4      H302 Harmful if swallowed.  
Skin Sens. 1      H317 May cause an allergic skin reaction.  
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **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**



GHS05    GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
Benzyl alcohol

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3-aminomethyl-3,5,5-trimethylcyclohexylamine

Fatty acids, C18-unsatd., dimers, polymeric reaction products with tall-oil fatty acids, 4,4'-isopropylidenediphenol-1-chloro-2,3-epoxypropane co-oligomer and triethylenetetramine

m-phenylenebis(methylamine)

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 5-amino-1,3,3-trimethylcyclohexanemethanamine and (chloromethyl)oxirane

2-piperazin-1-ylethylamine

3-aminopropyldimethylamine

· **Hazard statements**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

· **Additional information:**

EUH071 Corrosive to the respiratory tract.

Contains 3-aminomethyl-3,5,5-trimethylcyclohexylamine, 2-piperazin-1-ylethylamine, 3-aminopropyldimethylamine. May produce an allergic reaction.

· **2.3 Other hazards**

EUH071 Wirkt ätzend auf die Atemwege.

EUH208 Enthält N,N-Dimethyl-1,3-diaminopropan

· **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:**

	Fatty acids, C18-unsatd., dimers, polymeric reaction products with tall-oil fatty acids, 4,4'-isopropylidenediphenol-1-chloro-2,3-epoxypropane co-oligomer and triethylenetetramine	10-25%
	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1A, H317	
CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol	10-25%
	⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	
CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine	10-25%
	⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 1477-55-0 EINECS: 216-032-5	m-phenylenebis(methylamine)	2.5-10%
	⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	
CAS: 38294-64-3	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 5-amino-1,3,3-trimethylcyclohexanemethanamine and (chloromethyl)oxirane	2.5-10%
	⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Skin Sens. 1, H317; Aquatic Chronic 3, H412	

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CAS: 90-72-2 EINECS: 202-013-9	2,4,6-tris(dimethylaminomethyl)phenol ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	2.5-10%
CAS: 140-31-8 EINECS: 205-411-0	2-piperazin-1-ylethylamine ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	2.5-10%
CAS: 69-72-7 EINECS: 200-712-3	salicylic acid ⚠ Repr. 2, H361d; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	<2.5%
CAS: 109-55-7 EINECS: 203-680-9	3-aminopropyldimethylamine ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 3, H311; ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	<2.5%

· **Additional information:**

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

GISCODE: RE 1 (resin + hardener)

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

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

Symptoms of poisoning can only appear after many hours, therefore medical supervision at least 48 hours after an 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.

Foam (alcohol-resistant), carbon dioxide, powder, spray mist.

· **For safety reasons unsuitable extinguishing agents:** Full water jet.

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

· **5.3 Advice for firefighters**

· **Protective equipment:** No special measures required.

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### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralising agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
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.  
Store in a cool and dry place.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in the original container.
- **Information about storage in one common storage facility:** Store away from food, beverages and feed.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store frost-free.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### **100-51-6 Benzyl alcohol (10-25%)**

<b>WEL</b>	Long-term value: 22 mg / m <sup>3</sup> , 5 ml / m <sup>3</sup> 2 (I); DFG, H, Y, 11
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#### **2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine (10-25%)**

<b>WEL</b>	as vapor and aerosol; see section IIb
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#### **1477-55-0 m-phenylenebis(methylamine) (2.5-10%)**

<b>WEL</b>	as vapor and aerosol; see Section IV
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- **PNECs**  
BENZYL ALCOHOL  
Reference value in fresh water 1 mg / l  
Reference value in sea water 0.1 mg / l  
Reference value for deposits in fresh water 5.27 mg / kg  
Reference value for deposits in sea water 0.527 mg / l

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- Water reference value, intermittent release 2.3 mg / l
- Reference value for microorganisms STP 39 mg / l
- Reference value for earthly creatures 0.456 mg / kg
- M-PHENYLENBIS (METHYLAMINE)
- Reference value in fresh water 0.094 mg / l
- Reference value in sea water 0.0094 mg / l
- Reference value for deposits in fresh water 0.043 mg / kg / d
- Reference value for deposits in sea water 0.0043 mg / kg / d
- Water reference value, intermittent release 0.152 mg / l
- Reference value for microorganisms STP 10 mg / l
- Reference value for earthly creatures 0.0278 mg / kg / d
- Salicylic acid
- Reference value in fresh water 0.2 mg / l
- Reference value in sea water 0.02 mg / l
- Reference value for deposits in fresh water 1.42 mg / kg
- Reference value for deposits in sea water 0.142 mg / kg
- Water reference value, intermittent release 1 mg / l
- Reference value for microorganisms STP 162 mg / l
- Reference value for earthly creatures 0.166 mg / kg
- 2-piperazin-1-ylethylamine
- Designated, non-polluting concentration - PNEC
- Reference value in fresh water 0.058 mg / l
- Reference value in sea water 0.0058 mg / l
- Reference value for deposits in fresh water 215 mg / kg
- Reference value for deposits in sea water 21.5 mg / kg
- Water reference value, intermittent release 0.58 mg / l
- Reference value for microorganisms STP 250 mg / l
- Reference value for earthly creatures 42.9 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.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

- **Respiratory protection:**

- Not required with good ventilation. Wear respiratory protection at workplaces that are not adequately ventilated and when spraying. Filter A / P2.

- **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.
- Reagent protective nitrile gloves with a layer thickness of at least 0.4 mm (penetration shows > 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.

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- **Eye protection:** Tightly sealed goggles
- **Body protection:** Wear long-sleeved protective clothing.

### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Appearance:

· <b>Form:</b>	Fluid
· <b>Colour:</b>	Yellowish
· <b>Odour:</b>	Amine-like
· <b>Odour threshold:</b>	Not determined.

· **pH-value:** Not determined.

##### · Change in condition

· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Initial boiling point and boiling range:</b>	>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:

· <b>Lower:</b>	1.3 Vol %
· <b>Upper:</b>	13 Vol %

· **Vapour pressure at 20 °C:** 0.1 hPa

· **Density:** Not determined.

· **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.

· **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:

Keep away from strongly acidic and alkaline materials as well as oxidizing agents in order to avoid exothermic reactions.

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- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

LC50 (inhalation) of the mixture: > 20 mg / l

LD50 (oral) of the mixture: 1390.44 mg / kg

LD50 (dermal) of the mixture: > 2000 mg / kg

- **Acute toxicity**

Harmful if swallowed.

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

**100-51-6 Benzyl alcohol**

Oral LD50 1,230 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rbt)

Inhalative LC50/4 h 4,178 mg/l (rat)

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

Oral LD50 1,030 mg/kg (rat)

Dermal LD50 1,840 mg/kg (rab)

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

Oral LD50 1,040 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rab)

Inhalative LC50/4 h 2.4 mg/l (rat)

**140-31-8 2-piperazin-1-ylethylamine**

Oral LD50 1,470 mg/kg (Rat)

Dermal LD50 866 mg/kg (rbt)

**69-72-7 salicylic acid**

Oral LD50 91 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rab)

Inhalative LC50 >0.9 mg/l (rat)

**90-72-2 2,4,6-tris(dimethylaminomethyl)phenol**

Oral LD50 1,670 mg/kg (rat)

Dermal LD50 1,242 mg/kg (rab)

**109-55-7 3-aminopropyldimethylamine**

Oral LD50 1,870 mg/kg (rat)

Dermal LD50 490 mg/kg (rbt)

- **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.

- **Other information (about experimental toxicology):** Contains: N, N-dimethyl-1,3-diaminopropane

- **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.

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· **Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### · 12.1 Toxicity

M-PHENYLENBIS (METHYLAMINE)

LC50 - fish 87.6 mg / l / 96h *Oryzias latipes*EC50 - Crustaceans 15.2 mg / l / 48h *Daphnia magna*EC50 - Algae / aquatic plants 20.3 mg / l / 72h *Pseudokirchnerella subcapitata*

BENZYL ALCOHOL

LC50 - fish 460 mg / l / 96h *Pimephales promelas*EC50 - Crustaceans 230 mg / l / 48h *Daphnia magna*EC10 algae / aquatic plants 700 mg / l / 72h *Pseudokirchneriella subcapitata*NOEC chronic crustaceans 51 mg / l *Daphnia magna*

2,4,6-TRI- (DIMETHYLAMINOMETHYL) PHENOL

LC50 - fish 175 mg / l / 96h (*Cyprinus carpio*)EC50 - algae / aquatic plants 84 mg / l / 72h (*Scenedesmus subspicatus*)

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

LC50 - fish 110 mg / l / 96h *Leuciscus idus* CE 84/449EC50 - algae / aquatic plants > 50 mg / l / 72h *Scenedesmus subspicatus* CE 88/302NOEC chronic crustaceans 3 mg / l *Daphnia magna* OCSE 202 part 2NOEC chronic algae / aquatic plants 1.5 mg / l *scenedesmus subspicatus* CE 88/302

Salicylic acid

LC50 - fish 90 mg / l / 96h *Leuciscus idus melanotus*EC50 - Crustaceans 870 mg / l / 48h *Daphnia magna*EC50 - algae / aquatic plants > 100 mg / l / 72h *Scenedesmus subspicatus*

2-piperazin-1-ylethylamine

LC50 - fish 368 mg / l / 96h *Poecilia reticulata*EC50 - Crustaceans > 32 mg / l / 48h *Daphnia magna*

N, N-dimethyl-1,3-diaminopropane

LC50 - fish 122 mg / l / 96h (Golden orfe)

EC50 - Crustaceans 59.5 mg / l / 48h (*Daphnia magna*)

EC50 - Algae / Aquatic Plants 56.2 mg / l / 72h (Green algae)

· **Aquatic toxicity:** No further relevant information available.

### · 12.2 Persistence and degradability

M-PHENYLENBIS (METHYLAMINE) Solubility in water 1000 - 10000 mg / l Rapidly degradable

BENZYL ALCOHOL Rapidly degradable

2,4,6-TRI- (DIMETHYLAMINOMETHYL) PHENOL Water solubility &gt; 10000 mg / l NOT rapidly degradable

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE Water solubility 1000 - 10000 mg / l NOT rapidly degradable

Salicylic Acid Inherently degradable

2-piperazin-1-ylethylamine is NOT rapidly degradable

· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.

### · Ecotoxicological effects:

· **Remark:** Harmful to fish· **Additional ecological information:**

#### · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

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

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

### · 12.5 Results of PBT and vPvB assessment

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

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· **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. (m-phenylenebis(methylamine), 3-aminopropyldimethylamine)  
AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 3-aminopropyldimethylamine)· **IMDG, IATA**· **14.3 Transport hazard class(es)**· **ADR, IMDG, IATA**· **Class**

8 Corrosive substances.

· **Label**

8

· **14.4 Packing group**· **ADR, IMDG, IATA**

I

· **14.5 Environmental hazards:**

Not applicable.

· **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

Not permitted as Excepted Quantity

· **Transport category**

1

· **Tunnel restriction code**

E

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· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	0
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>UN "Model Regulation":</b>	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE)), 3-AMINOPROPYLDIMETHYLAMINE), 8, I

### 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** Keiner der Inhaltsstoffe ist enthalten.
- **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**  
Regular preventive examinations must be arranged for activities involving exposure to uncured epoxy resins and contact via the skin or the respiratory tract.
- **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.  
H311 Toxic in contact with skin.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H361d Suspected of damaging the unborn child.  
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)  
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)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic

(Contd. on page 11)

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

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**Trade name: HADALAN ESD-G 12E, Komponente B**

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*vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 3: Flammable liquids – Category 3**Acute Tox. 4: Acute toxicity - oral – Category 4**Acute Tox. 3: Acute toxicity - dermal – Category 3**Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Skin Sens. 1: Skin sensitisation – Category 1**Skin Sens. 1A: Skin sensitisation – Category 1A**Repr. 2: Reproductive toxicity – Category 2**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*

GB