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1 Identification of the substance/mixture and of the company/und	lertaking
· Product identifier	
Trade name: HADALAN PSB 12E, Komp. B	
 Article number: 50346 A Relevant identified uses of the substance or mixture and uses advised agains No further relevant information available. Application of the substance / the preparation Twin binder for plaster base sand and drainage screed, hardener 	t
• 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: Giftinformationszentrum Nord (GIZ Nord) Universität Göttingen, Tel.: 0551-19240 	
2 Hazards identification • Classification of the substance or mixture	
GHS05 corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. GHS07	
Skin Sens. 1 H317 May cause an allergic skin reaction.	
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.	
 Classification according to Directive 67/548/EEC or Directive 1999/45/EC Hazard description: C Corrosive Information concerning particular hazards for human and environment: R 22 Harmful if swallowed. R 34 Causes burns. R 43 May cause sensitisation by skin contact. R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Classification system: The classification is according to the latest editions of the EU-lists, and extendata. 	nded by company and literature
· Label elements	
• Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Direct	
The product has been classified and marked in accordance with EU Direct. Materials. GISCODE: RE 1 (Part A + B)	ives / Ordinance on Hazardous

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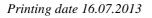
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(Contd. of page 1) · Code letter and hazard designation of product: C Corrosive · Hazard-determining components of labelling: Benzyl alcohol 3-aminomethyl-3,5,5-trimethylcyclohexylamine · Risk phrases: Harmful if swallowed. 22 34 Causes burns. 43 May cause sensitisation by skin contact. 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Safety phrases: Do not breathe gas/fumes/vapour/spray (appropriate wording to 23 be specified by the manufacturer). 24/25 Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of 26 water and seek medical advice. 28 After contact with skin, wash immediately with plenty of water. 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. 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). · Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable. 3 Composition/information on ingredients · Chemical characterization: Mixtures · Description: Epoxy resin hardener, formulation based on aliphatic polyamines · Dangerous components:

0 1		
CAS: 100-51-6	Benzyl alcohol	10-25%
EINECS: 202-859-9	🗙 Xn R20/22; 🗙 Xi R43	
	() Acute Tox. 4, H302; Acute Tox. 4, H332	
CAS: 2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2.5-10%
EINECS: 220-666-8	🛃 C R34; 🗙 Xn R21/22; 🗙 Xi R43	
	<u>R52/53</u>	
	♦ Skin Corr. 1B, H314; () Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 2579-20-6	1,3-Cyclohexanedimethanamine	2.5-10%
EINECS: 219-941-5		
	🐼 Acute Tox. 4, H302	
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CAS: 10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	2.5-10%
EINECS: 234-148-4	🗙 Xn R21	
	🚸 Acute Tox. 4, H302; Acute Tox. 4, H312	
CAS: 9016-45-9	Nonylphenolpolyglykolether	< 2.5%
	🗙 Xn R22; 🗙 Xi R41; 🏪 N R51/53	
	Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302	_
CAS: 1477-55-0	<i>m</i> -phenylenebis(methylamine)	< 2.5%
EINECS: 216-032-5	🔁 C R34; 🗙 Xn R22	
	♦ Skin Corr. 1B, H314; (1) Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	-
· Additional informati	ion: For the wording of the listed risk phrases refer to section 16.	

Additional information: For the wording of the listed risk phrases refer to section 10.

4 First aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- 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:
- Call for a doctor immediately.
- 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 fighting measures that suit the environment.

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam. · For safety reasons unsuitable extinguishing agents: Water with full jet.

· Special hazards arising from the substance or mixture

During heating or in case of fire, toxic gases is possible.

- · Advice for firefighters
- · Protective equipment: Put on breathing apparatus.
- · Additional information

Fire residues and contaminated firefighting water must be disposed of in accordance with official regulations.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · 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.

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• Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Clean the affected area carefully.

· 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.

7 Handling and storage

- · Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · 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 original container only. Provide floor with drain.
- Information about storage in one common storage facility: Keep away from foodstuffs.
- · Further information about storage conditions: Keep container tightly sealed.
- 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:

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

WEL see section IIb

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine (2.5-10%)

WEL see section IIb

• Additional information: The lists valid during the making were used as basis.

- · 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.
- · Respiratory protection: In case of insufficient ventilation, wear respiratory protection.
- · Protection of hands:
- Protective gloves

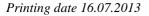
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Only use chemical-protective gloves with CE-labeling of category III. Before any re-use of the glove leak tightness.

· 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 (Contd. on page 5)

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application.

Protective gloves made of nitrile rubber or fluorine rubber (Viton) Recommended thickness of the material: ≥ 0.5 mm.

· Penetration time of glove material

The exact break trough 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 work clothing.

9 Physical and chemical proper	rties	
· Information on basic physical and	chemical properties	
· General Information		
· Appearance:		
Form:	Fluid	
Colour:	yellowish	
· Odour:	amine-like	
· Change in condition		
Melting point/Melting range:	nicht bestimmt	
· Flash point:	> 100 °C	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	380 °C	
· Self-igniting:	Product is not selfigniting.	
• Danger of explosion:	Product does not present an explosion hazard.	
• Vapour pressure at 20 •C:	23 hPa	
• Density at 20 •C:	1.036 g/cm ³	
· Solubility in / Miscibility with		
water:	Fully miscible.	
· Partition coefficient (n-octanol/wat	ter): Not determined.	
· Viscosity:		
Dynamic at 20 °C:	165 mPas	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
Water:	18 %	
VOC (EU)	0 %	
Solids content:	78.0 %	
• 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.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.

 $\cdot \textit{Incompatible materials: } No further relevant information available.$

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· Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values relevant for classification:	
100-51-6 Benzvl alcohol	

100-51-01	benzyi uno	
Oral	LD50	1230 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rbt)
Inhalative	LC50/4 h	4178 mg/l (rat)
2855-13-2	3-aminom	hethyl-3,5,5-trimethylcyclohexylamine
Oral	LD50	1030 mg/kg (rat)
Dermal	LD50	1840 mg/kg (rab)
2579-20-6	1,3-Cyclo	hexanedimethanamine
Oral	LD50	880 mg/kg (rat)
10563-29-	8 N'-(3-an	ninopropyl)-N,N-dimethylpropane-1,3-diamine
Oral	LD50	1670 mg/kg (rat)
Dermal	LD50	1310 mg/kg (rat)
9016-45-9	Nonylphe	nolpolyglykolether
Oral	LD50	500-2000 mg/kg (rat)
• on the eye • Sensitizati • Additiona The prod	n: Caustic : Strong ca ion: Sensiti I toxicologi uct shows	ct: effect on skin and mucous membranes. justic effect. ization possible through skin contact. ical information: the following dangers according to the calculation method of the General EU lines for Preparations as issued in the latest version:
Ciussijicu	ion Guidel	mes jor 1 reparations as issued in the talest version.

- Harmful
- Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

· Toxicity

Aquatic toxicity benzyl alcohol 100-51-6 Toxicity to algae 79 (3h) mg / l (Sc.quadricauda) 640 (96h) mg / l (algae Scenedesmus sp.) Toxicity to bacteria 658 (16h) mg / l (Pseudomonas putida) 71.42 (30 min) mg / l (Photobacterium phosphoreum) 400 (30min) mg / l (Pseudomonas putida) Daphnia 400 (24) mg / l (Daphnia magna (water flea)) Toxicity to fish 645 (48h) mg / l (Golden orfe) 10 (96h) mg / l (Lepomis macrochirus) 2855-13-2 3-aminomethyl-3,5,5-trimethyl-cyclohexylamine EC50/72h algae toxicity: 37 mg / l (Scenedesmus subspicatus) EC 88/302 Toxicity to bacteria EC10/18h 1120 mg / l (Pseudomonas putida) Bringmann and Kühn, Z. Water Wastewater Forsch 10, 87-98 (1977)

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Daphnia EC50/28h: 23 mg / l (Daphnia magna (water flea))	
OECD TG 202	
EC50/504h: 3 mg / l OECD 202 part 2	
LC50/96h fish toxicity: 110 mg/l (Brachydanio rerio)	
EC 84/449	
10563-29-8 N'-(3-aminopropyl)-N, N-dimethylpropane-1,3-diamine	
Daphnia (48h) 9.2 mg / l (Daphnia magna (water flea))	
OECD guideline 2029016-45-9 nonylphenolpolyglycolether	
Bacterial toxicity> 1000 mg / l (Gärröhrchentest)	
Toxicity to fish (96h) 1 - 10 mg / l (Guppy)	
(96h) 1 - 10 mg / l (zebra fish)	
9016-45-9 nonylphenol polyglycol ether with 30 EO (pasty)	
Toxicity to fish (24h) > 500 mg / l (Guppy)	
• Aquatic toxicity: No further relevant information available.	
· Persistence and degradability No further relevant information available.	
· Behaviour in environmental systems:	
· Bioaccumulative potential No further relevant information available.	
• Mobility in soil No further relevant information available.	
Ecotoxical effects:	
• Remark: Harmful to fish	
· Additional ecological information:	
· General notes:	
Must not reach sewage water or drainage ditch undiluted or unneutralized.	
Harmful to aquatic organisms	
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for wa	ter
Do not allow undiluted product or large quantities of it to reach ground water, we	iter course or sewage
system.	
Results of PBT and vPvB assessment	
• <i>PBT:</i> Not applicable.	
· vPvB: Not applicable.	
• Other adverse effects No further relevant information available.	

13 Disposal considerations

· Waste treatment methods

· Recommendation

For disposal, local regulations have to be observed. Perform liquid component to a suitable incineration. Product may be disposed of after curing together with household waste.

· 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.

• Recommended cleansing agents: Water, if necessary together with cleansing agents.

· UN-Number	
· ADR, IMDG, IATA	UN2735
· UN proper shipping name	
ADR	2735 AMINES, LIQUID, CORROSIVE, N.O.S (ISOPHORONEDIAMINE, 1,3-Cyclohexanedimethanamine)



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IMDG, IATA	A MINES, LIQUID, CORROSIVE, N.O.S (ISOPHORONEDIAMINE, 1,3-Cyclohexanedimethanamine)
· Transport hazard class(es)	
ADR, IMDG, IATA	
Class	8 Corrosive substances.
Label	8
Packing group ADR, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler):	80
EMS Number:	F-A,S-B
Segregation groups	Alkalis
Transport in bulk according to Annex I	I of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Transport category	3
Tunnel restriction code	E
UN "Model Regulation":	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S (ISOPHORONEDIAMINE, 1,3-Cyclohexanedimethanamine), & III

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture

- · National regulations:
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations BG code: Practical guidelines for the handling of epoxy resins (issued by the professional association in the construction industry) www.bgbau.de or www.gisbau.de

Handle epoxy systems safely (published by Plastics Europe) www.plasticseurope.org

BGR 227 "Epoxy Resins" (issued by the Federation of Trade Associations) www.dguv.de

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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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16 Other information This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. · Relevant phrases H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H332 Harmful if inhaled. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. R20/22 Harmful by inhalation and if swallowed. Harmful in contact with skin. R21 R21/22 Harmful in contact with skin and if swallowed. R22 Harmful if swallowed. R34 Causes burns. R41 Risk of serious damage to eyes. R43 May cause sensitisation by skin contact. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 Harmful 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 VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent GB