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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 21.07.2020

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

· 1.1 Product identifier

· Trade name: HADALAN TB 12E, Komp. B

• Article number: 40380B

- **UFI:** QN70-706M-G00J-QM2F
- 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 Binder for drainage and paving joint mortar, hardener component
- 1.3 Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Sievert Baustoffe GmbH & Co. KG Mühleneschweg 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

GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.

GHS07

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*



· Signal word Danger

• *Hazard-determining components of labelling:* 3-aminomethyl-3,5,5-trimethylcyclohexylamine m-phenylenebis(methylamine)

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Fettalkoholpoly	glykolether
Hazard stateme	ents
H314 Causes se	evere skin burns and eye damage.
H317 May caus	e an allergic skin reaction.
Precautionary	statements
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P	338 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.
2.3 Other hazar	rds
Results of PBT	and vPvB assessment
PBT: Not appli	cable.
vPvB: Not appl	
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SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Epoxy resin hardener, formulation based on aliphatic polyamines

· Dangerous compone	ents:	
CAS: 100-51-6	Benzyl alcohol	10-25%
EINECS: 202-859-9	() Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	
CAS: 2579-20-6	1,3-Cyclohexanedimethanamine	2.5-10%
EINECS: 219-941-5	♦ Acute Tox. 4, H302	
CAS: 2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	2.5-10%
EINECS: 220-666-8	♦ Skin Corr. 1B, H314; ♦ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	2.5-10%
EINECS: 234-148-4	() Acute Tox. 4, H302; Acute Tox. 4, H312	
CAS: 1477-55-0	<i>m-phenylenebis(methylamine)</i>	<2.5%
EINECS: 216-032-5	<i>♦ Skin Corr. 1B, H314; ♦ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332</i>	
CAS: 169107-21-5	Fettalkoholpolyglykolether	<2.5%
	♦ Eye Dam. 1, H318; ♦ Acute Tox. 4, H302	
• Additional informat	ion:	

Additional information:

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

GISCODE: RE^{-1} (Comp. A + B)

SECTION 4: First aid measures

• 4.1 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.

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:* Drink plenty of water and provide fresh air. Call for a doctor immediately.

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• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available. • 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

• 5.1 Extinguishing media

- · Suitable extinguishing agents:
- Use fire extinguishing methods suitable to surrounding conditions.
- not applicable, product is not flammable
- 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.*
- 5.2 Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced. During heating or in case of fire, toxic gases is possible.
- 5.3 Advice for firefighters

· Protective equipment:

- Mount respiratory protective device.
- Put on breathing apparatus.
- Additional information

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

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: Dilute with plenty of water. 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. Clean the affected area carefully.
 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.

- 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: 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.

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• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

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

WEL see Section IIb

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

WEL vgl.Abschn.IIb

1477-55-0 m-phenylenebis(methylamine) (<2.5%)

WEL as vapor and aerosol; see section IV

· DNELs

100-51-6 benzyl alcohol

Dermal DNEL - worker 9.5 mg / kg / bw / d (long-term) Inhalative DNEL - worker 22 mg / m³ (long-term)

2855-13-2 3-aminomethyl-3,5,5-trimethyl-cyclohexylamine

Inhalative DNEL - worker 20.1 mg / m^3

1477-55-0 1,3-benzenedimethanamine

Dermal DNEL - worker 0.33 mg / kg / bw / d

Inhalative DNEL - worker 1.2 mg / m³

· PNECs

100-51-6 benzyl alcohol

PNEC (predicted no effect concentration) 1 mg / l (freshwater)

0.1 mg / l (seawater)

2855-13-2 3-aminomethyl-3,5,5-trimethyl-cyclohexylamine

PNEC (predicted no effect concentration) 0.06 mg / l (freshwater)

0.006 mg / l (seawater)

1477-55-0 1,3-benzenedimethanamine

PNEC (predicted no effect concentration) 0.094 mg / l (freshwater)

- 0.0094 mg / l (seawater)
- Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.
- · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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. 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

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

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· 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 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.

9.1 Information on basic physical and ch General Information	nemical properties	
Appearance:		
Form:	Fluid	
Colour:	According to product specification	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	Undetermined.	
Flash point:	>100 °C	
Flammability (solid, gas):	Not applicable.	
Ignition temperature:	380 °C	
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 20 °C:	23 hPa	
Density at 20 °C:	1.036 g/cm ³	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water:	Fully miscible.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic at 20 °C:	165 mPas	
Kinematic:	Not determined.	
Solvent content:		
Solids content:	78.0%	

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• 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.
- \cdot 10.4 Conditions to avoid No further relevant information available.
- \cdot 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

100-51-6 Benzyl alcohol

Oral	LD50	1,230 mg/kg (rat)
Dermal	LD50	1,230 mg/kg (rat) 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)

· 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.

· CMR effects (carcinogenity, 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 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

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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)	
Daphnia EC50/28h: 23 mg / l (Daphnia magna (water flea))	
OECD TG 202	
EC50/504h: 3 mg / 1 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)	
<i>Toxicity to fish (96h) 1 - 10 mg / l (Guppy)</i>	
(96h) 1 - 10 mg / l (zebra fish)	
9016-45-9 nonylphenol polyglycol ether with 30 EO (pasty)	
Toxicity to fish $(24h) > 500 \text{ mg} / l$ (Guppy)	
• 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 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.	
· 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. 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 hazardous substances

- · Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA

UN2735

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· 14.2 UN proper shipping name	
ADR	2735 AMINES, LIQUID, CORROSIVE, N.O.
	(ISOPHORONEDIAMINE, 1,3
	Cyclohexanedimethanamine)
· IMDG, IATA	AMINES, LIQUID, CORROSIVE, N.O.
	(ISOPHORONEDIAMINE, 1,3
	Cyclohexanedimethanamine)
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
and the second s	
Class	8 Corrosive substances.
· Label	8
· 14.4 Packing group	
· ADR, IMDG, IATA	111
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Corrosive substances.
• Hazard identification number (Kemler code):	80
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 o	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
Tunnel restriction code	Ε
·IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.
	(ISOPHORONEDIAMINE, 1,3
	CYCLOHEXANEDIMETHANAMINE), 8, III

SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture • REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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· National regulations:

· Waterhazard class: Water hazard class 2 (Self-assessment): 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 • **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

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. 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - oral - Category 4 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3