

Printing date 27.05.2015

Revision: 27.05.2015

SECTION 1: 1	Identification of the substance/mixture and of the company/undertaking
· 1.1 Product ident	tifier
· Trade name: <u>HA</u>	DALAN EPUni 12E, Komp. B
No further releva	50048 B ntified uses of the substance or mixture and uses advised against nt information available. e substance / the mixture Solvent-free, low-viscosity, two-component epoxy resin.
• 1.3 Details of the • Manufacturer/Su Heinrich Hahne (Heinrich-Hahne- 45711 Datteln	GmbH & Co. KG
Abteilung: Produ Tel.: 02363 5663 EMail: info@hah • 1.4 Emergency te	-0 me-bautenschutz.de e lephone number: zentrum Nord (GIZ Nord) Universität Göttingen,
Classification act	n of the substance or mixture cording to Regulation (EC) No 1272/2008 5 corrosion
Skin Corr. 1B Eye Dam. 1	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Skin Sens. 1	 H302 Harmful if swallowed. H312 Harmful in contact with skin. H332 Harmful if inhaled. H317 May cause an allergic skin reaction.
Aquatic Chronic .	3 H412 Harmful to aquatic life with long lasting effects.
Information cone R 20/22 Harmft R 34 Causes l R 43 May cau Classification sys	use sensitisation by skin contact.
· 2.2 Label elemen · Labelling accord	nts ling to Regulation (EC) No 1272/2008 assified and labelled according to the CLP regulation. (Contd. on page 2) GB

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	(Contd. of page 1)		
· Hazard picto	grams		
	•		
GHS05 G	HS07		
· Signal word	Danger		
· Hazard-deter	mining components of labelling:		
Benzyl alcoho	ol		
2-piperazin-1	-ylethylamine		
2,4,6-tris(din	nethylaminomethyl)phenol		
· Hazard state	ments		
H302+H312-	+H332 Harmful if swallowed, in contact with skin or if inhaled.		
H314	Causes severe skin burns and eye damage.		
H317	May cause an allergic skin reaction.		
H412	Harmful to aquatic life with long lasting effects.		
· Precautionar			
P260	Do not breathe dust/fume/gas/mist/vapours/spray.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		
P262	Do not get in eyes, on skin, or on clothing.		
P303+P361+	-P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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.		
P332+P313	If skin irritation occurs: Get medical advice/attention.		
\cdot 2.3 Other has	zards		
· Results of PL	Results of PBT and vPvB assessment		
· PBT: Not app	plicable.		
· vPvB: Not ap			

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

 \cdot **Description:** Hardener for epoxy resin.

· Dangerous components:		
CAS: 100-51-6	Benzyl alcohol	50-100%
EINECS: 202-859-9	Xn R20/22	
	🚯 Acute Tox. 4, H302; Acute Tox. 4, H332	-
CAS: 140-31-8	2-piperazin-1-ylethylamine	10-25%
EINECS: 205-411-0	C R34; 🗙 Xn R21/22; 🗙 Xi R43	
	<u>R5</u> 2/53	
	♦ Skin Corr. 1B, H314; () Acute Tox. 4, H302; Acute Tox. 4, H312; Skin	-
	Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	10-25%
EINECS: 202-013-9	🗙 Xn R22; 🗙 Xi R36/38	
	() Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	-
· Additional informat	ion:	
For the wording of the	he listed risk phrases refer to section 16.	
GISCODE: RE 1 (Co	pmp. A + B)	
	-	(

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SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information:

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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.
- \cdot 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.
- 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: Foam (alcohol resistent), carbon dioxide, dry powder, water spray.
- · For safety reasons unsuitable extinguishing agents: Water jet
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: In case of fire: breathing protection with independent air supply.

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 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.

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• Further information about storage conditions: Protect from frost.

• Storage class: VCI: 8

· 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 (50-75%)

MAK chap. IIb

· 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.

• Respiratory protection:

With good ventilation is not required. In inadequately ventilated places and during spray processing, wear respiratory protection. Filter A / P2.

• 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.

Protective gloves made of nitrile with a layer thickness of min. 0.4 mm reagen (Durchdringungszeigt> 480 Min. Www.gisbau.de see also).

· 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: Long sleeved protective clothing.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic • General Information • Appearance:	physical and chemical properties	
Form:	Liquid	
Colour:	yellowisch	
· Odour:	amine-like	
· pH-value at 20 °C:	8.5 - 11	
• Change in condition Melting point/Melting	range: Undetermined.	
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Boiling point/Boiling range:	>200 °C	
· Flash point:	92 °C	
· Ignition temperature:	435 °C	
· Self-igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
• Vapour pressure at 50 •C:	<5 hPa	
· Density at 20 °C:	1.03 g/cm ³	
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.	
 Viscosity: Dynamic at 20 °C: 9.2 Other information 	50 mPas No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity

- · 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:
- Keep away from highly acidic and alkaline materials, oxidizing agents to avoid exothermic reactions.
- · 10.6 Hazardous decomposition products: Elimination of acrylonitrile at > 60 °C is possible.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

• Acute toxicity:

· LD/LC50 values relevant for classification:

 1477-55-0 m-phenylenebis(methylamine)		
Oral	LD50	1040 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rab)
Inhalative	LC50/4 h	2.4 mg/l (rat)

• Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

• on the eye: Strong caustic effect.

 \cdot Sensitisation: Sensitisation possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest 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.

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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.
- · Ecotoxical effects:
- **Remark:** Harmful to fish
- \cdot 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.
- · 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 dangerous substances

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number ADR, IMDG, IATA	UN2735
14.2 UN proper shipping name	
ADR	2735 AMINES, LIQUID, CORROSIVE, N.O.S., mixture AMINES, LIQUID, CORROSIVE, N.O.S., mixture
IMDG, IATA	
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
all	
Class	8 Corrosive substances.
Label	8
14.4 Packing group	
ADR, IMDG, IATA	III



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· 14.5 Environmental hazards:	
• Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Corrosive substances.
· Danger code (Kemler):	80
• EMS Number:	F- A , S - B
· 14.7 Transport in bulk according to Anne	er II of
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
$\cdot ADR$	
· Limited quantities (LQ)	5L
· Transport category	3
· Tunnel restriction code	E
· UN "Model Regulation":	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. mixture, 8, III

SECTION 15: Regulatory information

· 15.1 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 through the skin or the respiratory tract, regular checkups are causing.

The product subject to the directive 2004/42/EG. The VOC limit value of this product in ready to use condition is max. 500 g/l. The product contains in ready to use condition max. 250 g/l VOC.

• 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.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H412 Harmful to aquatic life with long lasting effects.

R20/22 Harmful by inhalation and if swallowed.

- R21/22 Harmful in contact with skin and if swallowed.
- R22 Harmful if swallowed.

R34 Causes burns.

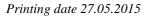
R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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· 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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3
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