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

Printing date 02.07.2020 Revision: 30.06.2020

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

· **1.1 Product identifier**

· **Trade name: HADALAN EG145 13E, Komp. B**

· **Article number:** 40218B
· **UFI:** 25F0-P0NS-S005-YJCC
· **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**
Rapid-hardening, two-component epoxy resin for priming mineral substrates with risk of moisture penetration from the back surface

· **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**

GHS08 health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

GHS05 corrosion

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

GHS09 environment

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H332 Harmful if inhaled.

(Contd. on page 2)

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

Printing date 02.07.2020 Revision: 30.06.2020

Trade name: HADALAN EG145 13E, Komp. B

(Contd. of page 1)

Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.

· **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 GHS08 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Reaction product of para-formaldehyde with 4-tert-butylphenol and 1,3-phenylenedimethanamine
2-Propenenitrile, reaction products with 1,3-benzenedimethanamine
3,3,5-trimethylhexamethylene-diamine
· **Hazard statements**
H302+H332 Harmful if swallowed or if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility or the unborn child.
H335 May cause respiratory irritation.
H410 Very toxic 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.
· **2.3 Other hazards**
· **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 curing agent for epoxy resin.

· **Dangerous components:**

EC number: 939-071-6	Reaction product of para-formaldehyde with 4-tert-butylphenol and 1,3-phenylenedimethanamine Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Skin Sens. 1, H317; STOT SE 3, H335; Lact., H362	25-50%
CAS: 90530-16-8	2-Propenenitrile, reaction products with 1,3-benzenedimethanamine Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412	25-50%
CAS: 25513-64-8	3,3,5-trimethylhexamethylene-diamine Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	2.5-10%

(Contd. on page 3)

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

Printing date 02.07.2020 Revision: 30.06.2020

Trade name: HADALAN EG145 13E, Komp. B

(Contd. of page 2)

· **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:**
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.
· **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:** Put on breathing apparatus.

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 neutralizing agent.
Dispose contaminated material as waste according to section 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.
Only store in original containers.
· **Information about fire - and explosion protection:** No special measures required.

(Contd. on page 4)

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

Printing date 02.07.2020 Revision: 30.06.2020

Trade name: HADALAN EG145 13E, Komp. B

(Contd. of page 3)

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store in original container.
· **Information about storage in one common storage facility:** Store away from foodstuffs, beverages and feed.
· **Further information about storage conditions:**
Keep container tightly closed.
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:**	
98-54-4 4-tert-butylphenol (25-50%)	
	AGW 0.5 mg/m3, 0.08 ml/m3 2(II); DFG, H
90194-00-6 1,3-Benzendimethanamin, N-(2-Cyanoethyl)-Derivate (25-50%)	
ACGIH (USA) instantaneous value	0.1 mg / m³ SKIN
1477-55-0 m-phenylenebis(methylamine) (10-25%)	
WEL	see Section IV

· **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:**
Not required if good ventilation. In inadequately ventilated places and during spraying respiratory protection. A/P2 filter.
· **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 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 clothing.

(Contd. on page 5)

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

Printing date 02.07.2020 Revision: 30.06.2020

Trade name: HADALAN EG145 13E, Komp. B

(Contd. of page 4)

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Liquid
Colour:	yellowish
· **Odour:**	aminic
· **pH-value at 20 °C:**	8.5 - 11
· **Change in condition**	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	>200 °C
· **Flash point:**	140 °C
· **Ignition temperature:**	510 °C
· **Auto-ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product does not present an explosion hazard.
· **Vapour pressure at 50 °C:**	< 5 hPa
· **Density at 20 °C:**	1.06 g/cm³
· **Solubility in / Miscibility with water:**	Not miscible or difficult to mix.
· **Viscosity:**	
Dynamic at 20 °C:	500 mPas
· **Solvent content:**	
Organic solvents:	0 %
· **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.
· **10.6 Hazardous decomposition products:** At > 60 ° C elimination of acrylonitrile possible.

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
As a product. Oral LD50 (single administration) has not been determined.
Based on information for component (s):
LD50, rat, 800 mg / kg (estimated)
Component information:
Reaction product of para-formaldehyde with 4-tert-butylphenol and 1,3-phenylenedimethanamine
Oral LD50 (single administration) has not been determined.
2-Propenenitrile, reaction products with 1,3-benzenedimethanamine

The value is based on a SAR / AAR approach using the OECD Toolbox, DEREK and VEGA QSA models (CAESAR models), etc. assigned.
LD50, 917 mg / kg (estimated)

(Contd. on page 6)

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

Printing date 02.07.2020 Revision: 30.06.2020

Trade name: HADALAN EG145 13E, Komp. B

(Contd. of page 5)

1,6-hexanediamine, 2,2,4 (or 2,4,4) trimethyl
LD50 Oral, Rat, Male, 910 mg / kg

· **Acute toxicity**
Harmful if swallowed or if inhaled.
· **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.
· **Acute effects (acute toxicity, irritation and corrosivity)**
Repeated dose toxicity
Information on ingredients tested : In humans, effects have been observed on the following organs :
Liver. Skin. Thyroid. Spleen. In animals, effects have been reported on the following organs:
Gastrointestinal tract.
Chronic Toxicity and Carcinogenicity
Information about the tested ingredients : dietary intake has caused enige tumors in the first part of the stomach.
developmental toxicity
Contains components which did not cause birth defects in laboratory animals .
reproductive toxicity
In animal studies, effects of components on reproduction were seen only at doses that were significantly toxic to the parent animals .
Genotoxicity
Contains components which in - vitro genetic toxicity studies were negative and positive in others in some .
Contains component (s) of (the) in in vitro studies on genotoxicity was negative (s) .
Animal genetic toxicity studies were negative.
Toxicity of the component - 4-tert- butylphenol
Inhalation LC50 , 4 h , Aerosol , Rat , male and female > 5,600 mg / m³
Component Toxicology - 1.3 - Benzendimethanamin
Inhalation LC50 , 4 h , rat, male > 1.42 mg / l
Inhalation LC50 , 4 h , rat , female 0.8 mg / l
· **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**
Suspected of damaging fertility or the unborn child.
· **STOT-single exposure**
May cause respiratory irritation.
· **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**
Reaction product of para-formaldehyde with 4-tert-butylphenol and 1,3-phenylenedimethanamine
Acute fish toxicity
This substance is toxic to aquatic organisms (LC50 / EC50 / IC50 between 1 and 10 mg / l for the most sensitive species).
LL50, Oncorhynchus mykiss (rainbow trout), static test, 96 h, 7.9 mg / l, OECD Test Guideline 203
Acute toxicity to aquatic invertebrates
EL50, Daphnia magna (large water flea), static test, 48 h, 8.98 mg / l, OECD Test Guideline 202
Acute toxicity to algae / aquatic plants
EL50, Pseudokirchneriella subcapitata (green algae), static test, 72 h, growth rate, 4.94 mg / l, OECD test guideline
201
Toxicity to bacteria
EC50, activated sludge, 3 h, 66 mg / l, OECD Test Guideline 209

(Contd. on page 7)

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

Printing date 02.07.2020 *Revision: 30.06.2020*

Trade name: HADALAN EG145 13E, Komp. B

(Contd. of page 6)

2-Propenenitrile, reaction products with 1,3-benzenedimethanamine
Acute fish toxicity
The product is practically non-toxic for fish on an acute basis (LC50> 100 mg / L).
The value is based on a SAR / AAR approach using the OECD Toolbox, DEREK and VEGA QSA models (CAESAR models), etc. assigned.
LC50, Pimephales promelas (fat-headed minnow), 1 480 mg / l
Acute toxicity to aquatic invertebrates
The product is slightly toxic to aquatic invertebrates on a static acute basis (10 mg / l <EC50 / LC50 <100 mg / l).
The value is based on a SAR / AAR approach using the OECD Toolbox, DEREK and VEGA QSA models (CAESAR models), etc. assigned.
EC50, Daphnia magna (large water flea), 48 h, 88.2 mg / l
1,6-hexanediamine, 2,2,4 (or 2,4,4) trimethyl
Acute fish toxicity
The product is practically non-toxic for fish on an acute basis (LC50> 100 mg / L).
LC50, carp (Leuciscus idus melanotus), static test, 72 h, 174 mg / l
Acute toxicity to algae / aquatic plants
EC50, algae (Scenedesmus subspicatus), static test, 72 h, biomass, 29.5 mg / l
Chronic fish toxicity
NOEC, Danio rerio (zebrafish), flow test, 30 d, mortality,> 10 mg / l
Chronic toxicity to aquatic invertebrates
NOEC, Daphnia magna (large water flea), semi-static test, 21 d, mortality, 1.02 mg / l

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

· ***12.2 Persistence and degradability***

Data for part of 1,3- Benzendimethanamin , N- (2- cyanoethyl) - derivatives.
No relevant data found .
Data for part of 4- tert-butylphenol
Material is readily biodegradable according to OECD test (s) for ready biodegradability.
OECD Biodegradation Tests :
Biodegradation Exposure Time Method 10 -day window
60 % 28 d OECD 301F test failed
98 % 28 d OECD 301A test successfully
Data for Component : 1,3 - Benzendimethanamin
Material is inherently biodegradable. Achievements in OECD test (s) for potential ioabbaubarkeit > 20%. Based on stringent OECD test guidelines, this material can not be considered as readily biodegradable ; however, the test results do not necessarily mean that the material under environmental conditions is not biodegradable .
OECD Biodegradation Tests :
Biodegradation Exposure Time Method 10 -day window
49 % 28 d OECD 301B test failed
22 % 28 d OECD 302C Test Not applicable
Data for Component : trimethyl -1 ,6-diamine
Based on stringent OECD test guidelines, this material can not be considered as readily biodegradable ; however, the test results do not necessarily mean that the material under Environmental conditions is not degradable.
OECD Biodegradation Tests :
Biodegradation Exposure Time Method 10 -day window
37 % 21 d OECD 301E Test not passed
13 % 28 d OECD test 302B Not applicable
2.2% 3 d OECD 303A Test Not applicable

· ***12.3 Bioaccumulative potential***

Data for part of 1,3- Benzendimethanamin , N- (2- cyanoethyl) - derivatives.
Bioaccumulation: No relevant data found .
Data for part of 4- tert-butylphenol
Bioaccumulation: Bioconcentration potential is moderate. (BCF between 100 and 3000 or Log Pow between 3 and 5) .
Partition coefficient n-octanol/water (log Pow) : 3.29 OECD test 107 (shake-flask)
Bioconcentration factor (BCF): 48-88 ; carp (Cyprinus carpio) measured 120; ide (Leuciscus idus), measured

(Contd. on page 8)

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

Printing date 02.07.2020 Revision: 30.06.2020

Trade name: HADALAN EG145 13E, Komp. B

(Contd. of page 7)

Data for Component : 1,3 - Benzendimethanamin
Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow <3).
Partition coefficient n-octanol/water (log Pow) : 0.18 OECD test 107 (shake-flask)
Bioconcentration factor (BCF): < 3; carp (Cyprinus carpio), measured
Data for Component : trimethyl -1 ,6-diamine
Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow <3).
Partition coefficient n-octanol/water (log Pow) : 0.77 measured

· **12.4 Mobility in soil**
Data for part of 1,3- Benzendimethanamin , N- (2- cyanoethyl) - derivatives.
Mobility in soil: No relevant data found .
Data for part of 4- tert-butylphenol
Mobility in soil : Potential for mobility in soil is low (Koc between 500 - 2000) .
Soil organic carbon / water (Koc) : 582 (estimated)
Henry's law constant (H): 1.19 E -06 atm * m³ / mol; Measured 25 ° C
Data for Component : 1,3 - Benzendimethanamin
Mobility in soil : Potential for mobility in soil is low (Koc between 500 - 2000) , due to the very low Henry 's constant, volatilization from natural bodies of water or moist soil is very low and is not expected to be an important fate . . Soil organic carbon / water (Koc) : 910 (estimated)
Henry's Law constant (h): 6,94 E-11 * m³ atm / mol; 25 ° C (estimated)
Data for Component : trimethyl -1 ,6-diamine
Mobility in soil : Potential for mobility in soil is low (Koc between 500 - 2000) , due to the very low Henry 's constant, volatilization from natural bodies of water or moist soil is very low and is not expected to be an important fate . .
Soil organic carbon / water (Koc) : 1200 (estimated)
Henry's law constant (H): 3.12 E-09 atm * m³ / mol; 25 ° C Estimated on the basis of the vapor pressure and water solubility

· **Ecotoxical effects:**
· **Remark:** Harmful to fish
· **Additional ecological information:**
· **General notes:**
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Harmful to aquatic organisms
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.

· **12.5 Results of PBT and vPvB assessment**
Data for part of 1,3-Benzendimethanamin, N-(2-cyanoethyl)-derivatives.
This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).
Data for part of 4-tert-butylphenol
This substance is not considered to be persistent, bioaccumulative and toxic (PBT).
This substance is not considered to be very persistent nor very bioaccumulative (vPvB).
Data for Component: 1,3-Benzendimethanamin
This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).
Data for Component: trimethyl-1,6-diamine
This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

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

· **12.6 Other adverse effects**
Data for part of 1,3-Benzendimethanamin, N-(2-cyanoethyl)-derivatives.
No data available.
Data for part of 4-tert-butylphenol
This substance is not included in Annex I to Regulation (EC) 2037/2000 on substances that deplete the ozone layer.
Data for Component: 1,3-Benzendimethanamin
This substance is not included in Annex I to Regulation (EC) 2037/2000 on substances that deplete the ozone layer.
Data for Component: trimethyl-1,6-diamine

(Contd. on page 9)

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

Printing date 02.07.2020 Revision: 30.06.2020

Trade name: HADALAN EG145 13E, Komp. B

(Contd. of page 8)

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. (2-Propenenitril, Reaktionsprodukte mit 1,3-Benzoldimethanamin, Reaktionsprodukt von Para-Formaldehyd mit 4-tert.-Butylphenol und 1,3-Phenylendimethanamin), ENVIRONMENTALLY HAZARDOUS
· **IMDG**	AMINES, LIQUID, CORROSIVE, N.O.S. (2-Propenenitril, Reaktionsprodukte mit 1,3-Benzoldimethanamin, Reaktionsprodukt von Para-Formaldehyd mit 4-tert.-Butylphenol und 1,3- Phenylendimethanamin), MARINE POLLUTANT
· **IATA**	AMINES, LIQUID, CORROSIVE, N.O.S. (2-Propenenitril, Reaktionsprodukte mit 1,3-Benzoldimethanamin, Reaktionsprodukt von Para-Formaldehyd mit 4-tert.-Butylphenol und 1,3- Phenylendimethanamin)
· **14.3 Transport hazard class(es)**	
· **ADR, IMDG**	
· **Class**	8 Corrosive substances.
· **Label**	8
· **IATA**	
· **Class**	8 Corrosive substances.
· **Label**	8
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	III
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	Symbol (fish and tree)
· **Special marking (ADR):**	Symbol (fish and tree)

(Contd. on page 10)

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

Printing date 02.07.2020 Revision: 30.06.2020

Trade name: HADALAN EG145 13E, Komp. B

(Contd. of page 9)

· **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 of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **Transport category**	3
· **Tunnel restriction code**	E
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 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.S. (2-PROPENENITRIL, REAKTIONSPRODUKTE MIT 1,3-BENZOLDIMETHANAMIN, REAKTIONSPRODUKT VON PARA-FORMALDEHYD MIT 4-TERT.-BUTYLPHENOL UND 1,3- PHENYLENDIMETHANAMIN), 8, III, ENVIRONMENTALLY HAZARDOUS

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

· **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: 500 g / l (2010). The product contains: 1 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.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

(Contd. on page 11)

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

Printing date 02.07.2020 *Revision: 30.06.2020*

Trade name: HADALAN EG145 13E, Komp. B

(Contd. of page 10)

H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H362 May cause harm to breast-fed children.
H411 Toxic to aquatic life with long lasting effects.
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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity - oral – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Lact.: Reproductive toxicity – effects on or via lactation
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3