

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

Printing date 03.11.2020

Revision: 03.11.2020

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

- **1.1 Product identifier**
- **Trade name: HADALAN WHG-LDS 12E, Komponente B**
- **UFI: WTU0-3044-S00W-7R0U**
- **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 WHG conductive cover layer, 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.
Acute Tox. 4 H332 Harmful if inhaled.
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**

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.11.2020

Revision: 03.11.2020

Trade name: HADALAN WHG-LDS 12E, Komponente B

(Contd. of page 1)

Hazard-determining components of labelling:

4,4'-Isopropylidendiphenol, oligomere Umsetzungsprodukte mit 1-Chlor-2,3-epoxypropan, Reaktionsprodukte mit

3-Aminomethyl-3,5,5-trimethylcyclohexylamin

Benzyl alcohol

m-phenylenebis(methylamine)

2-Phenoxyethanol

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.

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.

2.3 Other hazards EUH071 Wirkt ätzend auf die Atemwege.
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:

CAS: 38294-64-3	4,4'-Isopropylidendiphenol, oligomere Umsetzungsprodukte mit 1-Chlor-2,3-epoxypropan, Reaktionsprodukte mit 3-Aminomethyl-3,5,5-trimethylcyclohexylamin ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Skin Sens. 1, H317; Aquatic Chronic 3, H412	25-50%
CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	25-50%
CAS: 1477-55-0 EINECS: 216-032-5	m-phenylenebis(methylamine) ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	10-25%
CAS: 122-99-6 EINECS: 204-589-7	2-Phenoxyethanol ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319	2.5-10%
CAS: 69-72-7 EINECS: 200-712-3	salicylic acid ⚠ Repr. 2, H361d; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	2.5-10%
CAS: 104-68-7	2-(2-phenoxyethoxy)ethanol ⚠ Eye Dam. 1, H318	<2.5%
CAS: 38640-62-9	Diisopropylnaphtalin ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 1, H410	<2.5%

Additional information:

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

GISCODE: RE 1 (Harz + Härter)

GB

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.11.2020

Revision: 03.11.2020

Trade name: **HADALAN WHG-LDS 12E, Komponente B**

(Contd. of page 2)

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.
- **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:** 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:** Mount respiratory protective device.

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.

(Contd. on page 4)

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

Printing date 03.11.2020

Revision: 03.11.2020

Trade name: **HADALAN WHG-LDS 12E, Komponente B**

(Contd. of page 3)

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:**

100-51-6 Benzyl alcohol (25-50%)

WEL Long-term value: 22 mg / m³, 5 ml / m³
2 (I); DFG, H, Y, 11

1477-55-0 m-phenylenebis(methylamine) (10-25%)

WEL as vapor and aerosol; see Section IV

122-99-6 2-Phenoxyethanol (2.5-10%)

WEL Long-term value: 5.7 mg / m³, 1 ml / m³
1 (I); DFG, Y, 11

· **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
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

· **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.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.11.2020

Revision: 03.11.2020

Trade name: HADALAN WHG-LDS 12E, Komponente B

(Contd. of page 4)

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.

· **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:**

Form: Fluid

Colour: Yellowish

· **Odour:** Amine-like

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 205.4 °C

· **Flash point:** >60 °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:**

Lower: 1.3 Vol %

Upper: 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.

(Contd. on page 6)

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

Printing date 03.11.2020

Revision: 03.11.2020

Trade name: **HADALAN WHG-LDS 12E, Komponente B**

(Contd. of page 5)

· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C:	>20.5 mm ² /s
· Solvent content:	
Organic solvents:	4.0 %
Solids content:	44.0 %
· 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:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Harmful if swallowed or if inhaled.

- **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)

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)

38640-62-9 Diisopropylnaphtalin

Oral	LD50	>4600 mg/kg (rat)
Dermal	LD50	>4000 mg/kg (rat)
Inhalative	LC50/4h	>5.6 g/l/4h (rat)

- **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 (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.

(Contd. on page 7)

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

Printing date 03.11.2020

Revision: 03.11.2020

Trade name: **HADALAN WHG-LDS 12E, Komponente B**

(Contd. of page 6)

- **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

M-PHENYLENBIS(METHYLAMIN)

LC50 - Fische 87,6 mg/l/96h *Oryzias latipes*

EC50 - Krustentiere 15,2 mg/l/48h *Daphnia magna*

EC50 - Algen / Wasserpflanzen 20,3 mg/l/72h *Pseudokirchnerella subcapitata*

BENZYLALKOHOL

LC50 - Fische 460 mg/l/96h *Pimephales promelas*

EC50 - Krustentiere 230 mg/l/48h *Daphnia magna*

EC10 Algen / Wasserpflanzen 700 mg/l/72h *Pseudokirchneriella subcapitata*

NOEC chronisch Krustentiere 51 mg/l *Daphnia magna*

Salicylsäure

LC50 - Fische 90 mg/l/96h *Leuciscus idus melanotus*

EC50 - Krustentiere 870 mg/l/48h *Daphnia magna*

EC50 - Algen / Wasserpflanzen > 100 mg/l/72h *Scenedesmus subspicatus*

Diisopropylnaphthaline

LC50 - Fische 0,5 mg/l/96h Fish

EC50 - Krustentiere 0,16 mg/l/48h *Daphnia*

EC50 - Algen / Wasserpflanzen 0,15 mg/l/72h *Algae*

NOEC chronisch Krustentiere 0,013 mg/l *Daphnia*

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

· 12.2 Persistence and degradability

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

2-PHENOXYETHANOL Solubility in water 28600 mg / l Rapidly degradable

BENZYL ALCOHOL Rapidly degradable

Salicylic Acid Inherently degradable

Diisopropylnaphthaline water solubility 0.125 mg / l 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.

- **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
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(Contd. on page 8)

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

Printing date 03.11.2020

Revision: 03.11.2020

Trade name: **HADALAN WHG-LDS 12E, Komponente B**

(Contd. of page 7)

- **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 · IMDG, IATA	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine)) AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
· 14.3 Transport hazard class(es) · ADR, IMDG, IATA	
	
· Class · Label	8 Corrosive substances. 8
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Segregation groups · Stowage Category · Segregation Code	Warning: Corrosive substances. 80 F-A,S-B Alkalis A 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) · Excepted quantities (EQ) · Transport category · Tunnel restriction code	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE)), 8, II

GB

(Contd. on page 9)

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

Printing date 03.11.2020

Revision: 03.11.2020

Trade name: **HADALAN WHG-LDS 12E, Komponente B**

(Contd. of page 8)

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** None of the ingredients are included.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
NK	4,0

- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

· **Other regulations, limitations and prohibitive regulations**

During activities involving exposure to uncured epoxy resins and contact via the skin or the
Regular preventive examinations are to be arranged for 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**

- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- 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.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H361d Suspected of damaging the unborn child.
- H410 Very 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)
- 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
- Eye Irrit. 2: Serious eye damage/eye irritation - Category 2
- Skin Sens. 1: Skin sensitisation - Category 1
- Repr. 2: Reproductive toxicity - Category 2
- Asp. Tox. 1: Aspiration hazard - Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3