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

· **1.1 Product identifier**

· **Trade name: HADALAN WHG-DS 12E; Komponente B**

· **UFI:** YYU0-30GX-D00W-JE5Y

· **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 top layer, Comp. B

· **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

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

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· **Hazard-determining components of labelling:**
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 5-amino-1,3,3-trimethylcyclohexanemethanamine and (chloromethyl)oxirane
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/hearing 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	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 5-amino-1,3,3-trimethylcyclohexanemethanamine and (chloromethyl)oxirane 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: 38640-62-9	Diisopropylnaphtalin Asp. Tox. 1, H304; Aquatic Chronic 1, H410	<2.5%
CAS: 104-68-7	2-(2-phenoxyethoxy)ethanol Eye Dam. 1, H318	<2.5%

· **Additional information:**
For the wording of the listed hazard phrases refer to section 16.
GISCODE: RE 1 (Harz + Härter)

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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 can only appear after many hours, therefore medical supervision at least 48 hours after an 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. 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:** Wasservollstrahl.
· **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.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose of contaminated material as waste according to Section 13.
Provide 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.

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SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Store in a cool and dry place.

· **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

· **8.1 Control parameters**
· **Additional information about design of technical facilities:** No further data; see item 7.

· **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.

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· **Respiratory protection:**
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.
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 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:** 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.
· **Ignition temperature:**	535 °C
· **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.

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· **Partition coefficient: n-octanol/water:**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **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:**		
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)
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)
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.
· **Additional toxicological information:**
· **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.

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· **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.
· **Ecotoxical 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.

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

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SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, IMDG, IATA**	UN2735
· **14.2 UN proper shipping name**	
· **ADR**	2735 DYE, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
· **IMDG, IATA**	AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
· **14.3 Transport hazard class(es)**	
· **ADR, IMDG, IATA**	
· **Class**	8 Corrosive substances.
· **Label**	8
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	I
· **14.5 Environmental hazards:**	Not applicable.
· **14.6 Special precautions for user**	Warning: Corrosive substances.
· **Hazard identification number (Kemler code):**	88
· **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)**	0
· **Excepted quantities (EQ)**	Code: E0 Not permitted as Excepted Quantity
· **Transport category**	1
· **Tunnel restriction code**	E
· **IMDG**	
· **Limited quantities (LQ)**	0
· **Excepted quantities (EQ)**	Code: E0 Not permitted as Excepted Quantity
· **UN "Model Regulation":**	UN 2735 DYE, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE)), 8, I

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

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