

Version number 2

Revision: 13.09.2017

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

· 1.1 Product identifier

· Trade name: ZWALUW REPOX (COMP-B)

• 1.2 Relevant identified uses of the substance or mixture and uses advised against • Sector of Use

SU21 Consumer uses: Private households / general public / consumersSU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· Application of the substance / the mixture Sealant

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier: DEN BRAVEN
Denariusstraat 11
4903 RC Oosterhout
The Netherlands
Tel: +31 (0)162-491000
Fax: +31 (0)162-421217
E-mail: info@denbraven.com
Internet: www.denbraven.com

Further information obtainable from: Product safety department. info@denbraven.com

1.4 Emergency telephone number: info@denbraven.com Tel.: +31 (0)162-491000

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008

GHS05 corrosion

Skin Corr. 1BH314 Causes severe skin burns and eye damage.Eye Dam. 1H318 Causes serious eye damage.

γγ.

GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

GHS07

Acute Tox. 4H302 Harmful if swallowed.Skin Sens. 1H317 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

(Contd. on page 2)

GB

Printing date 30.10.2017

Version number 2

Revision: 13.09.2017

Trade name: ZWALUW REPOX (COMP-B)

	(Contd. of page
Hazard-detern	nining components of labelling:
	-3,5,5-trimethylcyclohexylamine
Benzyl alcohol	
phenol, styrenat	ted
m-phenylenebis	
	nexylenediamine
Hazard statem	
H302 Harmful	if swallowed.
H314 Causes se	evere skin burns and eye damage.
	e an allergic skin reaction.
	aquatic life with long lasting effects.
Precautionary	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P280	Wear protective gloves.
P301+P330+P3	31 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P3	53 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin wit water or shower.
P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.
P501	Dispose of contents/container in accordance with local/regional/national/internationaregulations.
Additional info	ormation: TACTILE WARNING APPLICABLE FOR GENERAL PUBLIC
2.3 Other haza	rds
Results of PBT	and vPvB assessment

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

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

 Dangerous components: 		
CAS: 2855-13-2 EINECS: 220-666-8 Reg.nr.: 01-2119514687-32-xxxx	3-aminomethyl-3,5,5-trimethylcyclohexylamine ♦ Skin Corr. 1B, H314; ♦ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	10-<30%
CAS: 61788-44-1 EINECS: 262-975-0 Reg.nr.: 02-2119980970-27-xxxx	phenol, styrenated Aquatic Chronic 2, H411; () Skin Irrit. 2, H315; Skin Sens. 1, H317	10-<30%
CAS: 100-51-6 EINECS: 202-859-9 Reg.nr.: 01-2119492630-38-xxxx	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	10-<30%
CAS: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50-xxxx	m-phenylenebis(methylamine) Skin Corr. 1A, H314; () Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412	1-<5%
CAS: 61788-46-3 EINECS: 262-977-1 Reg.nr.: 01-2119473798-17-xxxx	Amines, coco alkyl STOT RE 2, H373; Asp. Tox. 1, H304; Skin Corr. 1B, H314; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Acute Tox. 4, H302; STOT SE 3, H335	1-<5%
CAS: 25513-64-8 EINECS: 247-063-2 Reg.nr.: 01-2119560598-25-xxxx	3,3,5-trimethylhexylenediamine Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1A, H317	<1%
• Additional information: For the	wording of the listed hazard phrases refer to section 16.	

(Contd. on page 3)

GB

Printing date 30.10.2017

Version number 2

Revision: 13.09.2017

Trade name: ZWALUW REPOX (COMP-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.
- After eye contact: Rinse opened eye for several minutes under running water. Then 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: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation

• 6.2 Environmental precautions:

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.

Pick up mechanically.

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 Use only in well ventilated areas.

· 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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.

(Contd. on page 4)

βB

Printing date 30.10.2017

Version number 2

Revision: 13.09.2017

Trade name: ZWALUW REPOX (COMP-B)

• 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · 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: Not required.
- · 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
- Butyl rubber, BR
- Recommended thickness of the material: ≥ 0.35 mm
- · Penetration time of glove material >480min
- Eye protection:
- Safety glasses



Tightly sealed goggles

SECTION 9: Physical and chemical properties

General Information		
Appearance:	_	
Form:	Pasty	
Colour:	Various colours	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Undetermined.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling ra	inge: ≥35 °C	
Flash point:	> 100 °C	
Flammability (solid, gas):	Not applicable.	

Printing date 30.10.2017

Version number 2

Revision: 13.09.2017

Trade name: ZWALUW REPOX (COMP-B)

	(Cont	td. of page 4)
· Ignition temperature:	435 °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 %	
	Undetermined.	
Upper:	13 Vol %	
	Undetermined.	
· Vapour pressure at 20 °C:	0,1 hPa	
	Undetermined.	
· Density at 20 °C:	1,48 g/cm ³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
VOC (EC)	12.00 %	
VOC (EC)	177.2 g/l	
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: 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

Harmful if swallowed.

· LD/LC50 values relevant for classification:

1477-55-0 m-phenylenebis(methylamine)

Oral LD50 1,040 mg/kg (rat)

Inhalative LC50/4 h 2.4 mg/l (rat)

· Primary irritant effect:

Skin corrosion/irritation

Causes severe skin burns and eye damage.

(Contd. on page 6)

GB

Printing date 30.10.2017

Version number 2

Revision: 13.09.2017

(Contd. of page 5)

Trade name: ZWALUW REPOX (COMP-B)

· 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.

 \cdot 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: 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: Toxic for fish
- · Additional ecological information:

· General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for 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
08 01 12	waste paint and varnish other than those mentioned in 08 01 11

· Uncleaned packaging:

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

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA

UN2735

(Contd. on page 7)

3 —

GB -

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

Printing date 30.10.2017

Version number 2

Revision: 13.09.2017

Trade name: ZWALUW REPOX (COMP-B)

	(Contd. of pag
14.2 UN proper shipping name ADR	2735 AMINES, LIQUID, CORROSIVE, N.O.
IMDG	(Amines, coco alkyl, m-phenylenebis(methylamine) ENVIRONMENTALLY HAZARDOUS AMINES, LIQUID, CORROSIVE, N.O.S. (Amine coco alkyl, m-phenylenebis(methylamine)), MARIN POLLUTANT
ΙΑΤΑ	AMINES, LIQUID, CORROSIVE, N.O.S. (Amine coco alkyl, m-phenylenebis(methylamine))
14.3 Transport hazard class(es)	
ADR, IMDG	
Class Label	8 Corrosive substances. 8
ΙΑΤΑ	
Class	8 Corrosive substances.
Label	8 Corrosive substances.
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	Product contains environmentally hazardous substance Amines, coco alkyl
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler): EMS Number:	80 E A S D
EMS Number: Segregation groups	F-A,S-B Alkalis
Stowage Category	Aikaiis
Segregation Code	SG35 Stow "separated from" acids.
14.7 Transport in bulk according to An Marpol and the IBC Code	nex II of Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
T	Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3 E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per inner packaging: 50 ml Maximum net quantity per outer packaging: 1000 ml

Printing date 30.10.2017

Version number 2

Revision: 13.09.2017

Trade name: ZWALUW REPOX (COMP-B)

(Contd. of page 7)

PHENYLENEBIS(METHYLAMINE)), 8, III, ENVIRONMENTALLY HAZARDOUS

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 is listed.
- · Seveso category E2 Hazardous to the Aquatic Environment
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements $500\ t$
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · 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.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- · Department issuing SDS: Product safety department.
- · Contact: Pascal Timmermans / Kees van Bemmel
- Abbreviations and acronyms:

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)
- VOC: Volatile Organic Compounds (USA, EU)
- 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 Category 4 Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- Skin Corr. 1B: Skin corrosion/irritation Category 1A
- Skin Irrit. 2: Skin corrosion/irritation Category 1
- Eye Dam. 1: Serious eye damage/eye irritation Category 1
- Skin Sens. 1: Skin sensitisation Category 1
- Skin Sens. 1A: Skin sensitisation Category 1A
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3
- STOT RE 2: Specific target organ toxicity (repeated exposure) Category 2
- Asp. Tox. 1: Aspiration hazard Category 1

(Contd. on page 9)

GB

Printing date 30.10.2017

Version number 2

Revision: 13.09.2017

(Contd. of page 8)

GB

Trade name: ZWALUW REPOX (COMP-B)

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1	
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	