

No. 1907/2006 (REACH)
Printed 28.08.2019

revision 28.08.2019 (GB) Version 1.6

WEICON BR Hardener

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

1.1. Product identifier

Name of product WEICON BR Hardener
Code-Nr. 104202

1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended intended purpose(s)

2-Component Epoxy Resin - Hardener Component

1.3. Details of the supplier of the safety data sheet

Distributor WEICON GmbH & Co. KG

Königsberger Str. 255, DE-48157 Münster

Phone: +49(0)251 / 9322 - 0, Fax: +49(0)251 / 9322 - 244

E-Mail: msds@weicon.de Internet: www.weicon.de

Advice Produktsicherheit / Product-Safety-Department

Hazard Statements Classification procedure

Phone : +49(0)251 / 9322 - 0 Fax : +49(0)251 / 9322 - 244 E-mail (competent person):

msds@weicon.de

1.4. Emergency telephone number

EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel:

++44 1865 407333 (English)

TRANSPORT EMERGENCY CONTACT - UK, UAE, South

Africa (24h): Tel: ++44 1865 407333 (English)

Manufacturer WEICON GmbH & Co. KG

Königsberger Str. 255, DE-48157 Münster

1.4. Emergency telephone number

GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h):

Tel: ++49 69 222 25285 (Deutsch, Englisch)

SECTION 2: Hazards identification

Hazard classes and Hazard

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

categories

outogooo	
Acute Tox. 4	H302
Acute Tox. 4	H312
Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Chronic 2	H411

Hazard Statements

H302 + H312 Harmful if swallowed or in contact with skin.

H315 Causes skin irritation.



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H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]







GHS05

GHS07

GHS09

Signal word

Danger

P102

Hazard Statements

H302 + H312 Harmful if swallowed or in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Keep out of reach of children.

Precautionary Statements

	·
P261 P264 P270 P272 P280	Avoid breathing vapours/spray. Wash hands thoroughly after handling. Do no eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/eye protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
P338	easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P501	Dispose of contents/container to hazardous or special waste collection point.

Hazardous ingredients for labeling 3,6-diazaoctanethylenediamin, amines, polyethylenepoly-, pentacthylenehexamine, tetraethylenepentamine

2.3. Other hazards

Information pertaining to special dangers for human and environment

Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.



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SECTION 3: Composition/ information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Description

Preparation of different active substances

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
112-24-3	203-950-6	3,6-diazaoctanethylenediamin	<= 1,1	Acute Tox. 4, H312 / Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412
112-57-2	203-986-2	tetraethylenepentamine	<1	Acute Tox. 4, H312 / Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Aquatic Chronic 2, H411
7727-43-7	231-784-4	barium sulphate, natural	10 - 25	
68131-73-7	268-626-9	amines, polyethylenepoly-	< 2,2	Acute Tox. 4, H302, H312 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / Skin Sens. 1, H317 / Aquatic Acute 1, H400 M=1 / Aquatic Chronic 1, H410 M=1
4067-16-7	223-775-9	pentacthylenehexamine	<= 1,6	Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Aquatic Acute 1, H400 M=1 / Aquatic Chronic 1, H410 M=1 / Eye Dam. 1, H318 /
REACH				
0404				DEAGU

CAS No	Name	REACH registration number
112-24-3	3,6-diazaoctanethylenediamin	not subject to registration
112-57-2	tetraethylenepentamine	01-2119487290-37
7727-43-7	barium sulphate, natural	01-2119491274-35
68131-73-7	amines, polyethylenepoly-	01-2119485823-28
4067-16-7	pentacthylenehexamine	01-2119485826-22

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.

In case of inhalation

Remove the casualty into fresh air and keep him immobile.

Refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with soap and water.

Refer for medical treatment.

In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of ingestion

Do not induce vomiting.

Call for a doctor immediately.

Rinse out mouth thoroughly with water.

Give plenty of water to drink in small sips.



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4.2. Most important symptoms and effects, both acute and delayed Physician's information / possible symptoms

vomiting

Respiratory complaints Allergic symptoms

Nausea

skin irritation

Physician's information / possible dangers

allergic reactions

Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed Treatment (Advice to doctor)

Keep under medical supervision for at least 48 hours.

Symptoms may not occur until several hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Fire-extinguishing activities according to surrounding.

5.2. Special hazards arising from the substance or mixture

Metal oxides

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Carbon dioxide (CO2)

Sulfur oxide

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Do not inhale explosion and/or combustion gases.

Additional information

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation.

Use personal protective clothing.

Keep away sources of ignition.

Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Inform pollution control authorities if product gets into the sewerage systems or open waters.

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.



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6.3. Methods and material for containment and cleaning up

Do not allow to dry out.

Avoid dust formation.

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

After taking up the material dispose according to regulation.

6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Open and handle container with care!

General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

Hygiene measures

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Wash hands before breaks and after work.

Advice on protection against fire and explosion

Pay attention to general rules of internal fire prevention.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in closed original container.

Advice on storage compatibility

Do not store together with animal feedstuffs.

Do not store together with food.

Further information on storage conditions

Store only in original container at temperature of 35°C maximum (=95°F).

Keep container tightly closed, store at cool and aired place, open and handle carefully.

Keep locked up.

Protect from heat and direct solar radiation.

Store in a dry place.

Prevent drying-out.

7.3. Specific end use(s)

Recommendation(s) for intended use

See section 1.2

! SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
7727-43-7	Barium sulphate: respirable dust	8 hours	4		EH40/2005



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Ingredients with occupational exposure limits to be monitored (continued)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
7727-43-7	Barium sulphate: total inhalable dust	8 hours	10		EH40/2005
111-40-0	2,2' Iminodi (ethylamine)	8 hours	4.3	1	EH40/2005

! Additional advice

The statutory local and national regulations have to be observed.

8.2. Exposure controls

Respiratory protection

If ventilation insufficient, wear respiratory protection.

In case of insufficient ventilation or long-term effect use breathing apparatus.

Short-term: filter apparatus, filter AX/P2, otherwise environment-independent breathing apparatus.

Hand protection

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]:: Nitrile rubber; 0,4mm; 480min:60min

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

Eye protection

tightly fitting goggles

Other protection measures

protective clothing

Appropriate engineering controls

Sufficient ventilation and exhaustion.

! SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Colour Odour

pasty brownish similar to amine

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not applicable				
boiling point	not determined				
melting point	not determined				
Flash point	> 93,3 °C			closed cup	keine selbstunterhaltende Verbrennung
Vapourisation rate	not determined				
Flammable (solid)	not determined				



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	Value	Temperature	at	Method	Remark
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined	20 °C			
Relative density	1,9 g/cm3	20 °C			
Vapour density	not determined				
Solubility in water		20 °C			insoluble
Solubility/other	not determined				
Partition coefficient n- octanol/water (log P O/W)	not determined				
Decomposition temperature	> 200 °C				
Viscosity dynamic	not determined				
Viscosity kinematic	not determined				
Oxidising properties No information available.					
Explosive properties no					
9.2. Other information No information available.					

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

No information available.



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10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide. Nitrous oxides (NOx)

Metaloxides

Sulphurous oxides (SOx)

Thermal decomposition

Remark No decomposition if used as directed.

! SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	1128,9 mg/kg			ATE
LD50 acute dermal	1485,9 mg/kg			ATE
Skin irritation	irritant	rabbit		
Eye irritation	corrosive	rabbit eye		
Skin sensitization	sensitizing	Guinea pig		

Subacute Toxicity - Carcinogenicity

Value

Mutagenicity	No experimental information on genotoxicity in vitro available.
Reproduction- Toxicity	Indications of toxic effects are available from reproduction studies in animals.

Method

Validation

trials.

No indications of carcinogenic

effects are available from long-term

Species

Experiences made from practice

Harmful to health by prolonged exposure.
Sensitization through skin contact possible.
Allergic reactions possible (analogy-reasons).
Risk of strong eye injuries.
Irritates respiratory tract.
Irritates mucous membranes.
Irritates eyes and skin.

Additional information

Carcinogenicity

The product is to be handled with the caution usual with chemicals.

Other hazardous properties may not be excluded.

The product has not been tested. The information is derived from the properties of the individual components.



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! SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Daphnia	LC50 33900 Mikro-g/l (48)	Daphnia magna		CAS: 112-24-3
Algae	EC50 3700 Mikro-g/l (96 h)	Pseudokirchneriella subcapitata		CAS: 112-24-3

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

! General regulation

Toxic to aquatic life, fishes and plankton.

Toxic to aquatic life with long lasting effects.

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into the ground water or aquatic environment.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

The ecotoxic effect of the product has not been tested. The information on this is given on the basis of details in the literature.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No. Name of waste

08 04 09* waste adhesives and sealants containing organic solvents or other hazardous

substances

15 01 10* packaging containing residues of or contaminated by hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

Recommendations for the product

Remove in accordance with local official regulations.

Dispose of as hazardous waste.

Recommendations for packaging

Dispose of according to the local waste regulations.

Packaging that cannot be cleaned should be disposed of like the product.

General information

Assignment to a waste code number / waste identification according to the EWC is to be carried out on a sector or process-specific basis.



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SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	3077	3077	3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N. O.S. (3,6- diazaoctanethylenediamin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (3,6- diazaoctanethylenediamin)	Environmentally hazardous substance, solid, n.o.s. (3,6-diazaoctanethylenediamin)
14.3. Transport hazard class(es)	9	9	9
14.4. Packing group	III	III	III
14.5. Environmental hazards	Yes	Yes	Yes

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

Land and inland navigation transport ADR/RID

Hazard label(s) 9 tunnel restriction code E Classification code M7

Marine transport IMDG

MARINE POLLUTANT

! SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC standard

VOC content 0 %

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

! SECTION 16: Other information

! Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

For industrial use only.

Further information

Each user is responsible for the implementation of the national special regulations.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.



H412

Safety Data Sheet according to Regulation (EC)

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Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.5

H302	Harmful if swallowed.
H302,	-?-
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.
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.

Harmful to aquatic life with long lasting effects.