



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

1.1. Product identifier

Name of product WEICON HB 300 Hardener
Code-Nr. 104502

1.2. Relevant identified uses of the substance or mixture and uses advised against

Uses advised against

Remark

Do not use for private purposes (household).

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
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

2.1. Classification of the substance or mixture

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

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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Skin Irrit. 2

H315

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

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Eye Dam. 1	H318	
Skin Sens. 1	H317	
Carc. 2	H351	
STOT RE 2	H373	
Aquatic Chronic 3	H412	

Hazard Statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]


GHS05



GHS07



GHS08

Signal word

Danger

Hazard Statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements

P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe vapours/spray.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container to hazardous or special waste collection point.

**Hazardous ingredients for labeling**

2-piperazin-1-ylethylamine, Amines, polyethylenepoly-, triethylenetetramine fraction, nickel

Special rules for supplemental label elements for certain mixtures

Contain 2-Piperazin-1-ylethylamin, Phenol, styrenated, Nickel. May produce an allergic reaction.

Additional information**Remark**

For industrial use only.

2.3. Other hazards**Results of PBT and vPvB assessment**

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

! SECTION 3: Composition/ information on ingredients**3.1. Substances**

not applicable

3.2. Mixtures**Description**

Modified amine hardener.

! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
7440-02-0	231-111-4	nickel	1 < 10	Carc. 2, H351 / STOT RE 1, H372 / Skin Sens. 1, H317
471-34-1	207-439-9	calcium-carbonate	25 - 50	
68082-29-1	500-191-5	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	1 < 20	Eye Dam. 1, H318 / Aquatic Chronic 2, H411 / Skin Irrit. 2, H315 / Skin Sens. 1, H317
90640-67-8	292-588-2	Amines, polyethylenepoly-, triethylenetetramine fraction	1 < 5	Acute Tox. 4, H302, H312 / Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Eye Dam. 1, H318 / Aquatic Chronic 3, H412
61788-44-1	262-975-0	Phenol, styrenated	0,05 < 1	Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Aquatic Chronic 2, H411
140-31-8	205-411-0	2-piperazin-1-ylethylamine	0,05 < 1	Acute Tox. 4, H302 / Acute Tox. 3, H311 / Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412 / STOT RE 1, H372 / Repr. 2, H361 /
7439-89-6	231-096-4	Eisen	25 - 50	

REACH

CAS No	Name	REACH registration number
7440-02-0	nickel	01-2119438727-29
471-34-1	calcium-carbonate	01-2119486795-18
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	01-2119972320-44
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	01-2119487919-13
61788-44-1	Phenol, styrenated	01-2119980970-27
140-31-8	2-piperazin-1-ylethylamine	01-2119471486-30
7439-89-6	Eisen	01-2119462838-24



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.
In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with soap and water.
Consult a doctor if skin irritation persists.

In case of eye contact

After eye contact, rinse opened eye for 15 minutes under running water. Transfer to hospital for specialist examination.

In case of ingestion

Do not induce vomiting.
Call for a doctor immediately.
Rinse out mouth and give plenty of water to drink.

4.2. Most important symptoms and effects, both acute and delayed

Physician's information / possible symptoms

vomiting
Respiratory complaints
Nausea
Thirst
skin irritation

Physician's information / possible dangers

Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam
Dry powder
Carbon dioxide
water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.
Carbon monoxide (CO)
Carbon dioxide (CO₂)

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

Cool endangered containers with water spray jet.
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.

6.3. Methods and material for containment and cleaning up

Clean with cleaning agents that do not contain solvents.
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.

General protective measures

Avoid contact with eyes and skin
Avoid explosion - before application obtain special instructions.
Do not inhale gases/vapours/aerosols.

Hygiene measures

At work do not eat, drink and smoke.
Remove soiled or soaked clothing immediately.
Work in rooms with good ventilation.
Wash hands before breaks and after work.

Advice on protection against fire and explosion

Pay attention to general rules of internal fire prevention.
Avoid effect of heat.

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 with acids or alkalis.
Do not store together with animal feedstuffs.
Do not store together with food.
Do not store together with metals.

**Further information on storage conditions**

Keep container tightly closed and store at cool and aired place.

Protect from heat and direct solar radiation.

Store in a dry place.

Keep in a cool place.

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/m ³]	[ppm]	Remark
471-34-1	Calcium Carbonate	8 hours	4		

DNEL-/PNEC-values**DNEL worker**

CAS No	Substance name	Value	Code	Remark
140-31-8	2-piperazin-1-ylethylamine	10,6 mg/m ³	DNEL acute inhalative (systemic)	
		80 mg/m ³	DNEL acute inhalative (local)	
		0,015 mg/m ³	DNEL long-term inhalative (local)	
		10,6 mg/m ³	DNEL long-term inhalative (systemic)	
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	3,9 mg/m ³	DNEL acute inhalative (local)	
		1,1 mg/kg bw/day	DNEL acute dermal, short-term (local)	
7439-89-6	Eisen	3 mg/m ³	DNEL long-term inhalative (local)	
7440-02-0	nickel	0,05 mg/m ³	DNEL acute inhalative (local)	
		0,07 mg/cm ²	DNEL long-term dermal (local)	
		0,05 mg/m ³	DNEL acute inhalative (systemic)	not determined
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	5380 mg/m ³	DNEL acute inhalative (systemic)	
		1 mg/m ³	DNEL long-term inhalative (systemic)	
		0,028 mg/m ³	DNEL acute dermal, short-term (local)	
		0,57 mg/kg bw/day	DNEL long-term dermal (systemic)	

PNEC

CAS No	Substance name	Value	Code	Remark
140-31-8	2-piperazin-1-ylethylamine	0,058 mg/l	PNEC aquatic, freshwater	
		250 mg/l	PNEC sewage treatment plant (STP)	
		215 mg/kg	PNEC sediment, freshwater	
		21,5 mg/kg	PNEC sediment, marine water	

**DNEL-/PNEC-values (continued)**

CAS No	Substance name	Value	Code	Remark
		0,0058 mg/l	PNEC aquatic, marine water	

Additional advice

The statutory local and national regulations have to be observed.

8.2. Exposure controls**Respiratory protection**

Short term: filter apparatus, filter K

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

Breathing apparatus in the event of aerosol or mist formation.

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**

pasty

Colour

black

Odour

similar to ammonia

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
boiling point	not determined				
melting point	not determined				
Flash point	not determined				
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				



	Value	Temperature	at	Method	Remark
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	2,3 - 2,5 g/cm ³	20 °C			
Vapour density	not determined				
Solubility in water					insoluble
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity dynamic	not determined	25 °C			
Viscosity kinematic	not determined				
Oxidising properties	No information available.				
Explosive properties	No information available.				
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

Reactions with acids.

Reactions with oxidising agents.

Reactions with Metals.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

Substances to avoid

Acid

Oxidising agent

Metal, Metal-Salts



10.6. Hazardous decomposition products

Gases/vapours, corrosive
Gases/vapours, toxic
Carbon monoxide
Carbon dioxide

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	> 2000 mg/kg			ATE
LD50 acute dermal	> 2000 mg/kg			ATE
Skin irritation	irritant			
Eye irritation	irritant - risk of strong eye injuries			
Skin sensitization	sensitizing			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Mutagenicity				No experimental information on genotoxicity in vitro available.
Reproduction-Toxicity				No indications of toxic effects were observed in reproduction studies in animals.
Carcinogenicity				Indications of possible carcinogenic effects in animal studies are available.

Specific target organ toxicity (repeated exposure)

May cause damage to organs, if longer exposed.

Experiences made from practice

Risk of strong health injuries in case of long-term exposition.
Sensitization through skin contact possible.
Risk of strong eye injuries.
Irritates eyes and skin.

Additional information

The product is to be handled with the caution usual with chemicals.
Other hazardous properties may not be excluded.

**SECTION 12: Ecological information****12.1. Toxicity****Ecotoxicological effects**

	Value	Species	Method	Validation
Fish	LC50 7,07 mg/l (96 h)	Fish		CAS: 68082-29-1
Daphnia	EC50 7,07 mg/l (48 h)	Daphnia magna		CAS: 68082-29-1
Algae	EC50 0,174 - 0,311 mg/l (96 h)	Pseudokirchneriella subcapitata		CAS: 7440-02-0

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**

Harmful 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 aquatic environment.

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****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.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	3259	3259	3259
14.2. UN proper shipping name	AMINES, SOLID, CORROSIVE, N.O.S. (Triethylenetetramine)	AMINES, SOLID, CORROSIVE, N.O.S. (Triethylenetetramine)	Amines, solid, corrosive, n.o.s. (Triethylenetetramine)



	ADR/RID	IMDG	IATA-DGR
14.3. Transport hazard class(es)	8	8	8
14.4. Packing group	III	III	III
14.5. Environmental hazards	No	No	No

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) 8

tunnel restriction code E

Classification code C8

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.

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 substances.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 9.5

H302	Harmful if swallowed.
H302,	-?-
H312	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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WEICON HB 300 Hardener

- H318 Causes serious eye damage.
- H351 Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
- H361 Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
- H372 Causes damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.