

**! SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Name of product**

WEICON A Hardener

Code-Nr. 100002

**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 &amp; 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 &amp; 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 Corr. 1A

H314

Eye Dam. 1

Skin Sens. 1

H317

Aquatic Chronic 3

H412

**Hazard Statements**

H314

Causes severe skin burns and eye damage.

H317

May cause an allergic skin reaction.

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

**Signal word**

Danger

**Hazard Statements**

- 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**

- P102 Keep out of reach of children.  
P260 Do not breathe dust/fume/gas/mist/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.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
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**

TRIETHYLENETETRAMINE, PROPOXYLATED

**2.3. Other hazards**

When grinding/processing the cured material, a dust containing quartz can be produced.

**! 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 polyamine



## Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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revision 10.07.2018 (GB) Version 8.5

### WEICON A Hardener

#### Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
90-72-2	202-013-9	2,4,6-Tris (dimethylaminomethyl) phenol	1 - 3	Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / Skin Sens. 1B, H317 / Aquatic Chronic 3, H412
112-24-3	203-950-6	trientine	7 - 13	Acute Tox. 4, H302; H312 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412
26950-63-0	500-055-5	TRIETHYLENETETRAMINE, PROPOXYLATED	13 - 30	Acute Tox. 4, H312 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412

#### REACH

CAS No	Name	REACH registration number
90-72-2	2,4,6-Tris (dimethylaminomethyl) phenol	01-2119560597-27
112-24-3	trientine	not subject to registration
26950-63-0	TRIETHYLENETETRAMINE, PROPOXYLATED	not subject to registration

## ! 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.

Seek medical treatment immediately.

#### In case of skin contact

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

Seek medical treatment immediately.

In case of skin contact, rinse with water for at least 10 minutes.

#### ! 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 thoroughly with water.

Give plenty of water to drink in small sips.

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

#### ! Physician's information / possible symptoms

vomiting

Skin burns

Nausea

#### ! Physician's information / possible dangers

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.



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## 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

In case of fire formation of dangerous gases possible.

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

### 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**

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

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## ! 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

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

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

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## ! SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### **! Advice on safe handling**

Avoid formation of aerosols.

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.



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#### 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 with acids or alkalis.

Do not store together with animal feedstuffs.

Do not store together with food.

Do not store together with oxidizing agents.

##### Further information on storage conditions

Store closed container at cool and aired place.

Protect from frost.

Protect from heat and direct solar radiation.

Storage temperature between 2°C to 40°C

#### 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

##### DNEL-/PNEC-values

##### DNEL worker

CAS No	Substance name	Value	Code	Remark
112-24-3	trientine	0,028 mg/kg bw/day	DNEL long-term dermal (local)	
		8 mg/kg bw/day	DNEL acute dermal, short-term (systemic)	
		0,41 mg/kg bw/day	DNEL long-term oral (repeated)	
		1 mg/kg	DNEL acute dermal, short-term (local)	
		0,57 mg/kg bw/day	DNEL long-term dermal (systemic)	
		5380 mg/m3	DNEL acute inhalative (systemic)	
		1 mg/m3	DNEL long-term inhalative (systemic)	
		20 mg/kg	DNEL short-term oral (acute)	
90-72-2	2,4,6-Tris (dimethylaminomethyl) phenol	0,31 mg/m3	DNEL long-term inhalative (systemic)	

##### PNEC

CAS No	Substance name	Value	Code	Remark
112-24-3	trientine	95,9 mg/kg	PNEC sediment, freshwater	



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**WEICON A Hardener****DNEL-/PNEC-values (continued)**

CAS No	Substance name	Value	Code	Remark
90-72-2	2,4,6-Tris (dimethylaminomethyl) phenol	0,19 mg/l	PNEC aquatic, freshwater	
		19,2 mg/kg	PNEC sediment, marine water	
		0,038 mg/l	PNEC aquatic, marine water	
		4,25 mg/l	PNEC sewage treatment plant (STP)	
		0,0084 mg/l	PNEC aquatic, marine water	
		0,2 mg/l	PNEC sewage treatment plant (STP)	
		0,084 mg/l	PNEC aquatic, freshwater	

**Additional advice**

The statutory local and national regulations have to be observed.

**8.2. Exposure controls****! Respiratory protection**

If ventilation insufficient, wear respiratory protection.

Breathing apparatus in the event of aerosol or mist formation.

Short term: filter apparatus, filter AX

**! 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.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: butyl rubber, 0,7mm; 480min

**Eye protection**

tightly fitting goggles

**Other protection measures**

protective clothing

**Appropriate engineering controls**

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

**! SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

pasty

**Colour**

green

**Odour**

hardly noticeable

**Odour threshold**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
pH value	11-12	20 °C			1:1 in water
boiling point	> 200 °C				



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	Value	Temperature	at	Method	Remark
<b>melting point</b>	not determined				
<b>Flash point</b>	> 100 °C			DIN 51758	Pensky-Martens Closed Cup
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not applicable				
<b>Flammability (gas)</b>	not applicable				
<b>Ignition temperature</b>	> 200 °C				
<b>Self ignition temperature</b>					The product is not self-igniting.
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	not determined				
<b>Relative density</b>	ca. 1,6 g/ml	23 °C			
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>		20 °C			soluble
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	> 200 °C				
<b>Viscosity kinematic</b>	not determined	40 °C			
<b>Viscosity dynamic</b>	not determined				
<b>Oxidising properties</b>	No information available.				
<b>Explosive properties</b>	No information available.				
<b>9.2. Other information</b>	No information available.				

**! SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

No information available.

**10.3. Possibility of hazardous reactions**

Reactions with acids, alkalies and oxidising agents.

**10.4. Conditions to avoid**

Keep away from heat.

**10.5. Incompatible materials****Substances to avoid**

Alkali (lye), concentrated

Acid, concentrated

Oxidising agent, strong

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide.

Nitrous oxides (NOx)

Toxic gases/vapours

Metaloxides

**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
<b>LD50 acute oral</b>	> 5000 mg/kg			ATE
<b>LD50 acute dermal</b>	> 3000 mg/kg			ATE
<b>LC50 acute inhalation</b>	> 50 mg/l ( )			ATE
<b>Skin irritation</b>	corrosive	rabbit	OECD 404 Acute Dermal Irritation / Corrosion	
<b>Eye irritation</b>	corrosive	rabbit eye	OECD 405 Acute Eye Irritation/ Corrosion	
<b>Skin sensitization</b>	sensitizing	Guinea pig	OECD 406 Skin Sensitization	

**Subacute Toxicity - Carcinogenicity**

	Value	Species	Method	Validation
<b>Chronic Toxicity</b>	NOAEL 50 mg/kg (90 d) Repeated Dose 90-Day Oral Toxicity Study in Rodents CAS: 112-24-3		OECD 408	-





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	Value	Species	Method	Validation
<b>Mutagenicity</b>			OECD 482 Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells in vitro	No experimental information on genotoxicity in vitro available.
	CAS: 112-24-3			
<b>Reproduction- Toxicity</b>	NOEL		OECD 422 Combined Repeated Dose Toxicity Study with the Reproduction/ Developmental Toxicity Screening Test	No indications of toxic effects were observed in reproduction studies in animals.
	Experimental value CAS: 90-72-2			
<b>Carcinogenicity</b>			OECD 451 Carcinogenicity Studies	No indications of carcinogenic effects are available from long-term trials.
	Carcinogenicity Studies / 3d/week CAS: 90-72-2			

**Experiences made from practice**

Corrosive effect on skin and mucous membrane.

Sensitization through skin contact possible.

Causes corrosions.

Risk of strong eye injuries.

**! Additional information**

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.

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

	Value	Species	Method	Validation
<b>Fish</b>	LC50 330 mg/l (96 h)	Fish	EPA OPPTS EPA OTS 797. 1400	CAS: 112-24-3
<b>Daphnia</b>	EC50 31,1 mg/l (48 h)	Daphnia magna	EU EC C.2 Acute Toxicity for Daphnia	CAS: 112-24-3
<b>Algae</b>	ErC50 20 mg/l (72 h)	Green algae	OECD 201	CAS: 112-24-3
<b>Bacteria</b>	EC50 800 mg/l (30 min)	Leuciscus idus		CAS: 112-24-3



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#### 12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
<b>Biological degradability</b>	0 % (162 d)		OECD 301 D	not degradable
	CAS: 112-24-3			
<b>Degradability</b>	4 % (28 d)		OECD 301 D	not degradable
	CAS: 90-72-2			

#### 12.3. Bioaccumulative potential

Slight bioaccumulation potential.

#### 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 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.

07 02 04\*

##### Name of waste

other organic solvents, washing liquids and mother liquors

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

Empty containers can be deposited after cleaning in accordance with the local waste regulations.

Dispose of according to the local waste regulations.

##### ! 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
<b>14.1. UN number</b>	2735	2735	2735
<b>14.2. UN proper shipping name</b>	AMINES, LIQUID, CORROSIVE, N.O.S. (TRIETHYLENETETRAMINE, E, PROPOXYLATED)	AMINES, LIQUID, CORROSIVE, N.O.S. (TRIETHYLENETETRAMINE, PROPOXYLATED)	Amines, liquid, corrosive, n.o. s. (TRIETHYLENETETRAMINE, PROPOXYLATED)



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	ADR/RID	IMDG	IATA-DGR
<b>14.3. Transport hazard class(es)</b>	8	8	8

<b>14.4. Packing group</b>	II	II	II
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<b>14.5. Environmental hazards</b>	No	No	No
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**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

Special provisions 274

Classification code C7

**! 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****Training advice**

When grinding/processing the cured material, a dust containing quartz can be produced.

**! 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: 8.4

H302 Harmful if swallowed.

H302; -?-

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.



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H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.