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

### 1.1. Product identifier

**Name of product** WEICON UW Hardener  
Code-Nr. 104402

### 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  
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)

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## 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 Sens. 1B	H317	
Aquatic Chronic 3	H412	

#### Hazard Statements

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]**



GHS07

**Signal word**

Warning

**Hazard Statements**

- 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.  
 P261 Avoid breathing 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.  
 P280 Wear protective gloves/eye protection.  
 P302 + P352 IF ON SKIN: Wash with plenty of 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.  
 P312 Call a POISON CENTER/doctor/if you feel unwell.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.  
 P405 Store locked up.  
 P501 Dispose of contents/container to hazardous or special waste collection point.

**! Hazardous ingredients for labeling**

3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl]propoxy]propan-1-ol; 3-sulfanylpropane-1,2-diol, 3,6-diazaoctanethylenediamin

**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**

**! 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	Acute Tox. 4, H312 / Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412
14807-96-6	238-877-9	talcum (Mg3H2(SiO3)4)	1 - 5	
13463-67-7	236-675-5	titanium-dioxide	5 <= 10	
90-72-2	202-013-9	2,4,6-Tri-(dimethylaminomethyl)phenol	<= 4,9	Acute Tox. 4, H302 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / Acute Tox. 4, H312

**Hazardous ingredients (continued)**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
1477-55-0	216-032-5	m-Phenylenebis (methylamine)	<= 2,4	Acute Tox. 4, H302 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319
72244-98-5	615-735-8	3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl]propoxy]propan-1-ol; 3-sulfanylpropane-1,2-diol	50 <= 75	Skin Sens. 1B, H317 / Aquatic Chronic 3, H412

**REACH**

CAS No	Name	REACH registration number
112-24-3	3,6-diazaoctanethylenediamin	not subject to registration
14807-96-6	talcum (Mg3H2(SiO3)4)	01-2120140278-58
13463-67-7	titanium-dioxide	01-2119489379-17
90-72-2	2,4,6-Tri-(dimethylaminomethyl)phenol	01-2119560597-27
1477-55-0	m-Phenylenebis (methylamine)	01-2119480150-50
72244-98-5	3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl]propoxy]propan-1-ol; 3-sulfanylpropane-1,2-diol	01-2120118957-46

**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 immediately with soap and water.

Consult a doctor if skin irritation persists.

**In case of eye contact**

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

**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**

No information available.

**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.



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## 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>)

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.

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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.

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

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

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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

Do not inhale vapours.

Avoid contact with eyes and skin

Do not inhale dust.

Ensure sufficient ventilation.

#### 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.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep in closed original container.

Keep only in 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 at +5 till +25 °C.

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

Protect from heat and direct solar radiation.

**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
1314-56-3	Diphosphorus pentoxide	8 hours Short-term	2		EH40/2005
14807-96-6	Talc respirable dust	8 hours	1		EH40/2005
13463-67-7	Titanium dioxide: total inhalable dust	8 hours	10		EH40/2005
13463-67-7	Titanium dioxide: respirable dust	8 hours	4		EH40/2005

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

CAS No	Substance name	Value	Code	Remark
13463-67-7	titanium-dioxide	10 mg/m3	DNEL long-term inhalative (systemic)	
90-72-2	2,4,6-Tri-(dimethylaminomethyl)phenol	0,2 mg/kg bw/day	DNEL long-term dermal (systemic)	
		0,31 mg/m3	DNEL long-term inhalative (systemic)	

**PNEC**

CAS No	Substance name	Value	Code	Remark
13463-67-7	titanium-dioxide	100 mg/l	PNEC sewage treatment plant (STP)	
		1 mg/l	PNEC aquatic, marine water	
		1000 mg/kg	PNEC sediment, marine water	
		100 mg/kg	PNEC sediment, freshwater	
		0,127 mg/l	PNEC aquatic, freshwater	
90-72-2	2,4,6-Tri-(dimethylaminomethyl)phenol	0,084 mg/l	PNEC aquatic, freshwater	
		0,2 mg/l	PNEC sewage treatment plant (STP)	



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## WEICON UW Hardener

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

CAS No	Substance name	Value	Code	Remark
		0,0084 mg/l	PNEC aquatic, marine water	

### ! Additional advice

The statutory local and national regulations have to be observed.

### 8.2. Exposure controls

#### Respiratory protection

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

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.

#### 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

cream

#### Odour

sulphur-like

#### Odour threshold

not determined

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value</b>	not applicable				
<b>boiling point</b>	not determined				
<b>melting point</b>	not determined				
<b>Flash point</b>	not applicable				
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	> 200 °C				estimate

**WEICON UW Hardener**

	Value	Temperature	at	Method	Remark
<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>	1,421 g/cm <sup>3</sup>	20 °C			
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>					insoluble
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity dynamic</b>	not determined				
<b>Viscosity kinematic</b>	not determined				
<b>Oxidising properties</b>	No information available.				
<b>Explosive properties</b>	not determined				
<b>9.2. Other information</b>	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.

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide.

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

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>	> 2000 mg/kg			ATE
<b>LD50 acute dermal</b>	> 2000 mg/kg			ATE
<b>LC50 acute inhalation</b>	> 20 mg/l ( )			ATE
<b>Skin irritation</b>	low irritant effect - not necessary to label			
<b>Eye irritation</b>	low irritant - no labeling duty			
<b>Skin sensitization</b>	sensitizing			

**Subacute Toxicity - Carcinogenicity**

	Value	Species	Method	Validation
<b>Mutagenicity</b>				No experimental information on genotoxicity in vitro available.
<b>Reproduction-Toxicity</b>				No indications of toxic effects were observed in reproduction studies in animals.
<b>Carcinogenicity</b>				No indications of carcinogenic effects are available from long-term trials.

**Experiences made from practice**

Sensitization through skin contact possible.

Frequent contact specially if dried out may cause skin and eye irritations.

**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**





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## WEICON UW Hardener

	Value	Species	Method	Validation
<b>Algae</b>	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

Slight bioaccumulation 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 the ground water or aquatic environment.

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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste code No.

08 04 10

15 01 02

#### Name of waste

waste adhesives and sealants other than those mentioned in 08 04 09

plastic packaging

#### Recommendations for the product

Remove in accordance with local official regulations.

#### Recommendations for packaging

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>	-	-	-
<b>14.2. UN proper shipping name</b>	-	-	-
<b>14.3. Transport hazard class(es)</b>	-	-	-
<b>14.4. Packing group</b>	-	-	-
<b>14.5. Environmental hazards</b>	-	-	-



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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

**Transport/further information**

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

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**! 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.

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**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: 2.6

H302 Harmful if swallowed.  
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.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.