

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

**Name of product** WEICON C Hardener  
Code-Nr. 101002

**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)

**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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Acute Tox. 4	H302	
Skin Corr. 1B	H314	
Eye Dam. 1	H318	
Skin Sens. 1	H317	
Aquatic Chronic 3	H412	

**Hazard Statements**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.

- H318 Causes serious eye damage.  
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

- H302 Harmful if swallowed.  
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.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
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.  
P330 Rinse mouth.  
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

1-methylimidazole, 3-Aminomethyl-3,5, 5-trimethylcyclohexylamin, M-phenylenebis (methylamine)

## 2.3. Other hazards

### Information pertaining to special dangers for human and environment

- Causes severe burns.  
Risk of serious damage to eyes.  
Danger of serious damage to health by prolonged exposure.

**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**

Aliphatic and cyclo-aliphatic polyamine.

**Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
2855-13-2	220-666-8	3-Aminomethyl-3,5, 5-trimethylcyclohexylamin	13 <= 30	Acute Tox. 4, H302, H312 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412
1477-55-0	216-032-5	M-phenylenebis (methylamine)	13 <= 30	Acute Tox. 4, H302, H332 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412 / , EUH071
616-47-7	210-484-7	1-methylimidazole	3 <= 7	Acute Tox. 4, H302 / Acute Tox. 3, H311 / Skin Corr. 1B, H314 / Eye Dam. 1, H318

**REACH**

CAS No	Name	REACH registration number
2855-13-2	3-Aminomethyl-3,5, 5-trimethylcyclohexylamin	01-2119514687-32
1477-55-0	M-phenylenebis (methylamine)	01-2119480150-50
616-47-7	1-methylimidazole	01-2119979544-23

**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 case of inhalation of fumes symptoms of poisoning may occur after hours, medical treatment is necessary.

Seek medical treatment immediately.

**In case of skin contact**

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

Remove contaminated clothing immediately, even underwear and shoes.

Seek medical treatment immediately.

**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**

If swallowed or in case of vomiting, danger of infiltration into the lungs (danger of aspiration).

Do not induce vomiting.

Call for a doctor immediately.

Give water to drink in small sips.

Rinse out mouth thoroughly with water.



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

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

Stomache -ache  
vomiting  
Respiratory complaints  
Headache  
Allergic symptoms  
Skin burns  
Nausea  
Gastrointestinal complaints

##### **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)**

If swallowed or in the event of vomiting, risk of entering the lungs.  
Keep under medical supervision for at least 48 hours.  
Symptoms may not occur until several hours.

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### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Fire-extinguishing activities according to surrounding.

##### **Unsuitable extinguishing media**

Full water jet

#### **5.2. Special hazards arising from the substance or mixture**

Danger of bursting  
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**

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.  
Keep away sources of ignition.



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### 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

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.

#### Hygiene measures

At work do not eat, drink and smoke.

Wash hands and skin 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.

Do not store together with oxidizing agents.

#### Further information on storage conditions

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

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

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### DNEL-/PNEC-values



## Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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revision 22.10.2018 (GB) Version 9.0

**WEICON C Hardener****DNEL worker**

CAS No	Substance name	Value	Code	Remark
1477-55-0	M-phenylenebis (methylamine)	0,33 mg/kg	DNEL long-term dermal (systemic)	
		1,2 mg/m3	DNEL long-term inhalative (systemic)	
		0,2 mg/m3	DNEL long-term inhalative (local)	
2855-13-2	3-Aminomethyl-3,5, 5-trimethylcyclohexylamin	20,1 mg/m3	DNEL acute inhalative (local)	
		20,1 mg/kg bw/day	DNEL acute inhalative (systemic)	
616-47-7	1-methylimidazole	1,47 mg/m3	DNEL long-term inhalative (systemic)	
		0,42 mg/kg bw/day	DNEL long-term dermal (systemic)	

**PNEC**

CAS No	Substance name	Value	Code	Remark
1477-55-0	M-phenylenebis (methylamine)	0,43 mg/kg	PNEC sediment, freshwater	
		0,094 mg/l	PNEC soil, freshwater	
		0,009 mg/l	PNEC soil, marine water	
		10 mg/l	PNEC sewage treatment plant (STP)	
2855-13-2	3-Aminomethyl-3,5, 5-trimethylcyclohexylamin	0,578 mg/kg	PNEC sediment, marine water	
		1,121 mg/kg	PNEC soil, freshwater	
		5,784 mg/kg	PNEC sediment, freshwater	
		0,06 mg/l	PNEC aquatic, freshwater	
		0,006 mg/l	PNEC aquatic, marine water	
616-47-7	1-methylimidazole	3,18 mg/l	PNEC sewage treatment plant (STP)	
		590 mg/kg	PNEC sewage treatment plant (STP)	
		0,695 mg/kg	PNEC sediment, marine water	
		0,01 mg/l	PNEC soil, marine water	
		0,1 mg/l	PNEC soil, freshwater	

**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.

Breathing apparatus with combination filter A2/P2

**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  
protective shield**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**

liquid

**Colour**

light yellow

**Odour**

hardly noticeable

**Odour threshold**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	not determined				
<b>boiling point</b>	> 200 °C				
<b>Melting point / Freezing point</b>	not determined				
<b>Flash point</b>	106 °C			DIN 51758	Pensky-Martens Closed Cup
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	not determined				
<b>Self ignition temperature</b>	not determined				
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	< 0,02 hPa	20 °C			
<b>Relative density</b>	1,01 g/cm <sup>3</sup>	25 °C			
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>		20 °C			more or less insoluble
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				



	Value	Temperature	at	Method	Remark
<b>Decomposition temperature</b>	> 200 °C				
<b>Viscosity dynamic</b>	800 - 16000 mPa*s	25 °C			
<b>Viscosity kinematic</b>	not determined	40 °C			
<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

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

### 10.3. Possibility of hazardous reactions

Reactions with strong acids and alkalis.

Reactions with strong 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 (NO<sub>x</sub>)

Toxic gases/vapours

### 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>	1929,2 mg/kg		estimate	ATE





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**WEICON C Hardener**

	Value/Validation	Species	Method	Remark
<b>LD50 acute dermal</b>	> 2000 mg/kg		estimate	ATE
<b>LC50 acute inhalation</b>	> 5 mg/l (4 h)		dust/mist	ATE
<b>Skin irritation</b>	corrosive	rabbit		
<b>Eye irritation</b>	corrosive	rabbit eye		
<b>Skin sensitization</b>	sensitizing	Guinea pig		

**Subacute Toxicity - Carcinogenicity**

	Value	Species	Method	Validation
<b>Chronic Toxicity</b>	NOAEL 30 mg/kg (90 d) Repeated Dose 90-Day Oral Toxicity Study in Rodents OECD 422		CAS: 616-47-7	-
<b>Mutagenicity</b>				No experimental information on genotoxicity in vitro available.
<b>Reproduction-Toxicity</b>	NOAEL (F1) 0 - 450 mg/kg  CAS: 1477-55-0	Rat	OECD 421	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**

Risk of strong health injuries in case of long-term exposition.

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.

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

	Value	Species	Method	Validation
<b>Fish</b>	LC50 87,6 mg/l (96 h)	red killifish	OECD 203	CAS: 1477-55-0
<b>Daphnia</b>	EC50 15,2 mg/l (48 h)	Daphnia sp.	OECD 202	CAS: 1477-55-0
<b>Algae</b>	EC50 37 mg/l (72 h)	Green algae	Richtlinie 67/548/ EWG; Anhang V, C.3	CAS: 2855-13-2
<b>Bacteria</b>	EC50 1050 mg/l (17 h)	No data available	DIN 38412 T.8	CAS: 616-47-7

**12.2. Persistence and degradability**

	Elimination rate	Method of analysis	Method	Validation
<b>Biological degradability</b>	8 % (28 d) CAS: 2855-13-2		OECD 301 F	not readily degradable
<b>Degradability</b>	49 % (28 d) CAS: 1477-55-0		OECD 301 B	not readily degradable

**12.3. Bioaccumulative potential**

No bioaccumulation

**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****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
<b>14.1. UN number</b>	2735	2735	2735
<b>14.2. UN proper shipping name</b>	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Isophorone diamine, M- phenylenebis (methylamine))	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Isophorone diamine, M- phenylenebis (methylamine))	Polyamines, liquid, corrosive, n.o.s. (Isophorone diamine, M-phenylenebis (methylamine))
<b>14.3. Transport hazard class(es)</b>	8	8	8
<b>14.4. Packing group</b>	II	II	II



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ADR/RID	IMDG	IATA-DGR
<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

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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: 1.0

EUH071	Corrosive to the respiratory tract.
H302	Harmful if swallowed.
H302,	-?-
H302,	-?-
<del>H332</del>	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.