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

### 1.1. Product identifier

**Name of product** WEICON Ceramic BL Hardener  
Code-Nr. 104002

### 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)

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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 |
|--------------------------------------|-------------------|--------------------------|
|--------------------------------------|-------------------|--------------------------|

|              |      |  |
|--------------|------|--|
| Acute Tox. 4 | H302 |  |
|--------------|------|--|

|              |      |  |
|--------------|------|--|
| Acute Tox. 4 | H332 |  |
|--------------|------|--|

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

| Hazard classes and Hazard categories | Hazard Statements | Classification procedure |
|--------------------------------------|-------------------|--------------------------|
| Skin Corr. 1B                        | H314              |                          |
| Eye Dam. 1                           |                   |                          |
| Skin Sens. 1                         | H317              |                          |
| Aquatic Chronic 3                    | H412              |                          |

**Hazard Statements**

|             |  |
|-------------|--|
| H302 + H332 | Harmful if swallowed or if inhaled.                |
| 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**

|             |  |
|-------------|--|
| H302 + H332 | Harmful if swallowed or if inhaled.                |
| 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 vapours/spray.  |
| P264               | Wash hands thoroughly after handling.  |
| P270               | Do not eat, drink or smoke when using this product.  |
| P271               | Use only outdoors or in a well-ventilated area.  |
| P272               | Contaminated work clothing should not be allowed out of the workplace.   |
| P273               | Avoid release to the environment.  |
| P280               | Wear protective gloves/eye protection.   |
| P281               | Use personal protective equipment as required.   |
| 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.   |
| 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. |
| P312               | Call a POISON CENTER or doctor/physician if you feel unwell.   |
| 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**

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine, Amines, polyethylenepoly-, triethylenetetramine fraction, M-phenylenebis (methylamine)

**Additional information****Remark**

For industrial use only.

**2.3. Other hazards****Information pertaining to special dangers for human and environment**

Harmful by inhalation and if swallowed.

Risk of serious damage to eyes.

**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]  |
|------------|-----------|--|------------|---|
| 1477-55-0  | 216-032-5 | M-phenylenebis (methylamine)                             | 25 < 50    | Acute Tox. 4, H302, H332 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412 / , EUH071 |
| 90640-67-8 | 292-588-2 | Amines, polyethylenepoly-, triethylenetetramine fraction | 50 < 55    | Acute Tox. 4, H302, H312 / Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Eye Dam. 1, H318 / Aquatic Chronic 3, H412            |
| 25513-64-8 | 247-063-2 | 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine              | 1 < 5      | Acute Tox. 4, H302 / Skin Corr. 1A, H314 / Skin Sens. 1A, H317 / Eye Dam. 1   |

**REACH**

| CAS No     | Name   | REACH registration number |
|------------|--|---------------------------|
| 1477-55-0  | M-phenylenebis (methylamine)                             | 01-2119480150-50          |
| 90640-67-8 | Amines, polyethylenepoly-, triethylenetetramine fraction | 01-2119487919-13          |
| 25513-64-8 | 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine              | 01-2119560598-25          |

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.

In case of allergic reactions, specially at respiratory tract, seek medical treatment immediately.

Adhere to personal protective measures when giving first aid.

**In case of inhalation**

Remove the casualty into fresh air and keep him immobile.

Ensure of fresh air.

No mouth-to-mouth resuscitation by first aid.

Seek medical treatment immediately.

Artificial respiration with respiration bag or respirator.



**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 eye contact**

In case of contact with eyes rinse thoroughly with water.  
Call for a doctor immediately.

**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**

Unconsciousness  
Coughing  
vomiting  
Respiratory complaints  
Headache  
Skin burns

**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)**

If swallowed or in the event of vomiting, risk of entering the lungs.  
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.

Foam  
Dry fire-extinguishing substance  
Carbon dioxide  
Water spray jet

**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.

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**

Wear full protective clothing.  
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.  
Use breathing apparatus if exposed to vapours/dust/aerosol.

### 6.2. Environmental precautions

Collect contaminated water / firefighting water separately.  
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.  
Remove 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.  
Ventilate store-rooms thoroughly.  
Keep only in original container.

#### Advice on storage compatibility

Do not store with acids or alkalies.  
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.  
Store in a dry 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

#### DNEL-/PNEC-values

##### DNEL worker

| CAS No     | Substance name   | Value                   | Code                                  | Remark |
|------------|--|-------------------------|---------------------------------------|--------|
| 1477-55-0  | M-phenylenebis (methylamine)                             | 0,33 mg/kg              | DNEL long-term dermal (systemic)      |        |
|            |  | 0,2 mg/m <sup>3</sup>   | DNEL long-term inhalative (local)     |        |
|            |  | 1,2 mg/m <sup>3</sup>   | DNEL long-term inhalative (systemic)  |        |
| 90640-67-8 | Amines, polyethylenepoly-, triethylenetetramine fraction | 5380 mg/m <sup>3</sup>  | DNEL acute inhalative (systemic)      |        |
|            |  | 0,57 mg/kg bw/day       | DNEL long-term dermal (systemic)      |        |
|            |  | 1 mg/m <sup>3</sup>     | DNEL long-term inhalative (systemic)  |        |
|            |  | 0,028 mg/m <sup>3</sup> | DNEL acute dermal, short-term (local) |        |

##### PNEC

| CAS No    | Substance name               | Value      | Code                              | Remark |
|-----------|------------------------------|------------|-----------------------------------|--------|
| 1477-55-0 | M-phenylenebis (methylamine) | 0,43 mg/kg | PNEC sediment, freshwater         |        |
|           |                              | 10 mg/l    | PNEC sewage treatment plant (STP) |        |
|           |                              | 0,009 mg/l | PNEC soil, marine water           |        |
|           |                              | 0,094 mg/l | PNEC soil, 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.  
 Kurzzeitig Filtergerät, Kombinationsfilter 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

#### 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**

characteristic

**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>                                     | not determined         |             |    |        |                                   |
| <b>melting point</b>                                     | not determined         |             |    |        |                                   |
| <b>Flash point</b>                                       | > 100 °C               |             |    |        |                                   |
| <b>Vapourisation rate</b>                                | not determined         |             |    |        |                                   |
| <b>Flammable (solid)</b>                                 | not determined         |             |    |        |                                   |
| <b>Flammability (gas)</b>                                | not determined         |             |    |        |                                   |
| <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>                                   | ca. 0,1 hPa            | 20 °C       |    |        |                                   |
| <b>Relative density</b>                                  | 1,02 g/cm <sup>3</sup> | 25 °C       |    |        |                                   |
| <b>Vapour density</b>                                    | not determined         |             |    |        |                                   |
| <b>Solubility in water</b>                               | not determined         |             |    |        |                                   |
| <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>                                 | 450 mPa*s              | 25 °C       |    |        |                                   |
| <b>Viscosity kinematic</b>                               | 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**

Strong exothermic reaction with acids.

Reactions with strong acids and alkalies.

Reactions with 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

Ammonia

**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>       | 1363             |         |         | ATE             |
| <b>LD50 acute dermal</b>     | 1465 mg/kg       | rabbit  |         | CAS: 90640-67-8 |
| <b>LC50 acute inhalation</b> | 2,82 ()          |         | Aerosol | ATE             |
| <b>Skin irritation</b>       | corrosive        |         |         |                 |





## Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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**WEICON Ceramic BL Hardener**

|                           | Value/Validation | Species | Method | Remark |
|---------------------------|------------------|---------|--------|--------|
| <b>Eye irritation</b>     | corrosive        |         |        |        |
| <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**

Harmful to health by prolonged exposure.

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

Sensitization through skin contact possible.

Inhalation can cause damage to the respiratory tract or lungs.

Causes corrosions.

Risk of strong eye injuries.

Irritates respiratory tract.

**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 87,6 mg/l (96 h)  | Oryziatinae, e.g.<br>Oryzias latipes | OECD 203 | CAS: 1477-55-0 |
| <b>Daphnia</b> | EC50 15,2 mg/l (48 h)  | Daphnia magna                        | OECD 202 | CAS: 1477-55-0 |
| <b>Algae</b>   | ErC50 33,3 mg/l (72 h) | Green algae                          |          | CAS: 1477-55-0 |

**12.2. Persistence and degradability**

|                                 | Elimination rate              | Method of analysis | Method     | Validation    |
|---------------------------------|-------------------------------|--------------------|------------|---------------|
| <b>Biological degradability</b> | 49 % (28 d)<br>CAS: 1477-55-0 |                    | OECD 301 B | Biodegradable |

**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 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

##### 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.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

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>    | AMINES, LIQUID, CORROSIVE, N.O.S. (3,6-Diazaoctan-1,8-diamin; Triethylentetramin; 1,3-Benzoldimethanamin) | AMINES, LIQUID, CORROSIVE, N.O.S. (3,6-diazaoctanethylenediamin; m-phenylenbis (methylamine)) | Amines, liquid, corrosive, n.o. s. (3,6-diazaoctanethylenediamin; m-phenylenbis (methylamine)) |
| <b>14.3. Transport hazard class(es)</b> | 8   | 8   | 8  |
| <b>14.4. Packing group</b>              | II  | II  | II   |
| <b>14.5. Environmental hazards</b>      | 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 C7



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**Transport/further information**

Marine pollutant: NO

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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.

EUH071 Corrosive to the respiratory tract.  
H302 Harmful if swallowed.  
H302, -?-  
H302, -?-  
~~H332~~ 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.