

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

**Name of product** WEICON Casting Resin MS 1000 Hardener  
Code-Nr. 105202

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Recommended intended purpose(s)**

Hardener

**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  
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 |
|--------------------------------------|-------------------|--------------------------|
|--------------------------------------|-------------------|--------------------------|

|                   |      |
|-------------------|------|
| Acute Tox. 4      | H302 |
| Acute Tox. 4      | H312 |
| Skin Irrit. 2     | H315 |
| Eye Dam. 1        | H318 |
| Skin Sens. 1      | H317 |
| Aquatic Chronic 3 | H412 |

**Hazard Statements**

|             |   |
|-------------|---|
| H302 + H312 | Harmful if swallowed or in contact with skin. |
| H315        | Causes skin irritation.                       |
| H317        | May cause an allergic skin reaction.          |

- H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

**Additional hints**

OECD 404 Acute Dermal Irritation/Corrosion Test: Reizend / Irritant

Contains 72% of constituent with unknown hazard to the aquatic environment

72% of the mixture consists of one or more components of unknown acute toxicity.

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

GHS05



GHS07

**Signal word**

Danger

**Hazard Statements**

- H302 + H312 Harmful if swallowed or in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

- P102 Keep out of reach of children.  
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.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
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.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P330 Rinse mouth.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/container to hazardous or special waste collection point.

**Hazardous ingredients for labeling**

trientine

**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.



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

not applicable

**3.2. Mixtures****Description**

Preparation of different active substances

**Hazardous ingredients**

| CAS No   | EC No     | Name      | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]   |
|----------|-----------|-----------|------------|--|
| 112-24-3 | 203-950-6 | trientine | 13 - 30    | Acute Tox. 4, H302; H312 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412 |

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**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 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**

Stomache -ache

vomiting

Respiratory complaints

Skin burns

skin irritation

**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)**

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

Product does not burn, fire-extinguishing activities according to surrounding.

### 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

Remove persons to safety.

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).

Send in suitable containers for recovery or disposal.

### 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 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 only in original container 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

**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      | 20 mg/kg               | DNEL short-term oral (acute)                |        |
|          |                | 0,41 mg/kg<br>bw/day   | DNEL long-term oral (repeated)              |        |
|          |                | 1 mg/kg                | DNEL acute dermal, short-term<br>(local)    |        |
|          |                | 8 mg/kg<br>bw/day      | DNEL acute dermal, short-term<br>(systemic) |        |
|          |                | 0,028 mg/<br>kg bw/day | DNEL long-term dermal (local)               |        |
|          |                | 0,57 mg/kg<br>bw/day   | DNEL long-term dermal (systemic)            |        |
|          |                | 5380 mg/m3             | DNEL acute inhalative (systemic)            |        |
|          |                | 1 mg/m3                | DNEL long-term inhalative<br>(systemic)     |        |

**PNEC**

| CAS No   | Substance name | Value      | Code                        | Remark |
|----------|----------------|------------|-----------------------------|--------|
| 112-24-3 | trientine      | 19,2 mg/kg | PNEC sediment, marine water |        |
|          |                | 0,19 mg/l  | PNEC aquatic, freshwater    |        |
|          |                | 95,9 mg/kg | PNEC sediment, freshwater   |        |
|          |                | 0,038 mg/l | PNEC aquatic, marine water  |        |



## Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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**WEICON Casting Resin MS 1000 Hardener****DNEL-/PNEC-values (continued)**

| CAS No | Substance name | Value     | Code                              | Remark |
|--------|----------------|-----------|-----------------------------------|--------|
|        |                | 4,25 mg/l | PNEC sewage treatment plant (STP) |        |

**Additional advice**

The statutory local and national regulations have to be observed.

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

If ventilation insufficient, wear respiratory protection.

Short-term: filter apparatus, filter AX/P2, otherwise environment-independent breathing apparatus.

**Hand protection**

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

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]: 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**

liquid

**Colour**

clear

**Odour**

similar to amine

**Odour threshold**

not determined

**Important health, safety and environmental information**

|                             | Value          | Temperature | at | Method    | Remark                       |
|-----------------------------|----------------|-------------|----|-----------|------------------------------|
| <b>pH value</b>             | 12             | 20          |    |           | 1:1 in water                 |
| <b>boiling point</b>        | > 200 °C       |             |    |           |                              |
| <b>melting point</b>        | not determined |             |    |           |                              |
| <b>Flash point</b>          | 152 °C         |             |    | DIN 51758 | Pensky-Martens<br>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 applicable |             |    |           |                              |



|  | Value                     | Temperature | at | Method | Remark   |
|--|---------------------------|-------------|----|--------|----------|
| <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>                                   | 0,1 Pa                    | 20 °C       |    |        |          |
| <b>Relative density</b>                                  | 1-1,05 g/cm <sup>3</sup>  | 25 °C       |    |        |          |
| <b>Vapour density</b>                                    | not determined            |             |    |        |          |
| <b>Solubility in water</b>                               |                           | 20 °C       |    |        | miscible |
| <b>Solubility/other</b>                                  | not determined            |             |    |        |          |
| <b>Partition coefficient n-octanol/water (log P O/W)</b> | -2,65                     |             |    |        |          |
| <b>Decomposition temperature</b>                         | > 200 °C                  |             |    |        |          |
| <b>Viscosity dynamic</b>                                 | 370 - 470 mPa*s           | 25 °C       |    |        |          |
| <b>Viscosity kinematic</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 strong acids and alkalies.

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 (NOx)

Toxic gases/vapours

**Thermal decomposition**

Remark No decomposition below 200°C.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity/Irritation/Sensitization**

|                           | Value/Validation | Species    | Method   | Remark                            |
|---------------------------|------------------|------------|----------|-----------------------------------|
| <b>LD50 acute oral</b>    | 1716 mg/kg       | rat        |          | CAS: 112-24-3                     |
| <b>LD50 acute dermal</b>  | 1465 mg/kg       | rabbit     |          | CAS: 112-24-3                     |
| <b>Skin irritation</b>    | irritant         | rabbit     | OECD 404 | Toxicology tests with the product |
| <b>Eye irritation</b>     | corrosive        |            |          |                                   |
| <b>Skin sensitization</b> | sensitizing      | Guinea pig | OECD 406 | CAS: 112-24-3                     |

**Subacute Toxicity - Carcinogenicity**

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

**Mutagenicity**

No mutagenicity, after different in-vitro studies.

**Carcinogenicity**

No indications of carcinogenic effects are available from long-term trials.

**Experiences made from practice**OECD 404 Acute Dermal Irritation/Corrosion Test: Reizend / Irritant  
Sensitization through skin contact possible.

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.





## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicological effects

|                 | Value                   | Species           | Method                      | Validation    |
|-----------------|-------------------------|-------------------|-----------------------------|---------------|
| <b>Fish</b>     | LC50 330 mg/l (96 h)    | Fish              | EPA                         | CAS: 112-24-3 |
| <b>Daphnia</b>  | EC10 1,9 mg/l (21 d)    | Daphnia sp.       | OECD 202                    | CAS: 112-24-3 |
| <b>Algae</b>    | ErC50 20 mg/l (72 h)    | No data available | OECD 201, cell reproduction | CAS: 112-24-3 |
| <b>Bacteria</b> | EC10 42,5 mg/l (30 min) | No data available |                             | CAS: 112-24-3 |

### 12.2. Persistence and degradability

|                                 | Elimination rate             | Method of analysis | Method     | Validation     |
|---------------------------------|------------------------------|--------------------|------------|----------------|
| <b>Biological degradability</b> | 0 % (162 d)<br>CAS: 112-24-3 |                    | OECD 301 D | not degradable |
| <b>Degradability</b>            | 20 % (84 d)<br>CAS: 112-24-3 |                    | OECD 302 A | not degradable |

### 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

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 |
|--|--|------|----------|
| 14.1. UN number  | -  | -    | -        |
| 14.2. UN proper shipping name  | -  | -    | -        |
| 14.3. Transport hazard class(es)   | -  | -    | -        |
| 14.4. Packing group  | -  | -    | -        |
| 14.5. Environmental hazards  | -  | -    | -        |
| 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. |      |          |

## 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: 8.6

H302; -?-  
H31~~2~~ 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.