



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

**1.1. Product identifier**

**Name of product** WEICONLOCK AN 302-50  
Code-Nr. 302500

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

1-Component Adhesives and Sealants, anaerobic curing

**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

|               |      |
|---------------|------|
| Skin Irrit. 2 | H315 |
| Eye Dam. 1    | H318 |
| Skin Sens. 1  | H317 |
| STOT SE 3     | H335 |

**Hazard Statements**

|      |                                      |
|------|--------------------------------------|
| H315 | Causes skin irritation.              |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage.           |
| H335 | May cause respiratory irritation.    |

## 2.2. Label elements

### Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS05



GHS07

### Signal word

Danger

### Hazard Statements

|      |                                      |
|------|--------------------------------------|
| H315 | Causes skin irritation.              |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage.           |
| H335 | May cause respiratory irritation.    |

### Precautionary Statements

|                    |  |
|--------------------|--|
| P102               | Keep out of reach of children.   |
| P261               | Avoid breathing dust/fume/gas/mist/vapours/spray.  |
| P264               | Wash hands thoroughly after handling.  |
| P271               | Use only outdoors or in a well-ventilated area.  |
| P272               | Contaminated work clothing should not be allowed out of the workplace.   |
| P280               | Wear protective gloves/eye protection.   |
| P302 + P352        | IF ON SKIN: Wash with plenty of soap and water.  |
| 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/doctor/...  |
| P312               | Call a POISON CENTER or doctor/physician if you feel unwell.   |
| P333 + P313        | If skin irritation or rash occurs: Get medical advice/attention.   |
| P337 + P313        | If eye irritation persists: Get medical advice/attention.  |
| P362               | Take off contaminated clothing.  |
| P363               | Wash contaminated clothing before reuse.   |
| P403 + P233        | Store in a well-ventilated place. Keep container tightly closed.   |
| P405               | Store locked up.   |
| P501               | Dispose of contents/container to hazardous or special waste collection point.  |

### ! Hazardous ingredients for labeling

2-hydroxyethyl methacrylate, cumene hydroperoxide, methacrylic acid, (2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediy triacrylate

### 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

#### Description

Anaerobic adhesive / sealant



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No. 1907/2006 (REACH)

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**WEICONLOCK AN 302-50**

**Hazardous ingredients**

| CAS No     | EC No     | Name   | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]   |
|------------|-----------|--|------------|--|
| 79-41-4    | 201-204-4 | methacrylic acid   | 1 - 5      | Acute Tox. 4, H312 / Acute Tox. 4, H302 / Skin Corr. 1A, H314  |
| 868-77-9   | 212-782-2 | 2-hydroxyethyl methacrylate  | 10 - 30    | Eye Irrit. 2, H319 / Skin Irrit. 2, H315 / Skin Sens. 1, H317  |
| 80-15-9    | 201-254-7 | cumene hydroperoxide   | 0,1 - 1    | Org. Perox. E, H242 / Acute Tox. 3, H331 / Acute Tox. 4, H312 / Acute Tox. 4, H302 / STOT RE 2, H373 / Skin Corr. 1B, H314 / Aquatic Chronic 2, H411                                     |
| 75-91-2    | 200-915-7 | TERT-BUTYL HYDROPEROXIDE   | < 1        | Skin Sens.1, H317 / Flam. Liq, 3, H226 / Org. Perox. C, H242 / Acute Tox 4, H302 / Acute Tox 4, H312 / Acute Tox 2, H330 / Skin Corr 1 B, H314 / Muta. 2, H341 / Aquatic Chronic 2, H411 |
| 107-21-1   | 203-473-3 | ethanediol   | < 1        | Acute Tox. 4, H302 / STOT RE 2, H373   |
| 40220-08-4 | 254-843-6 | (2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate | 1 - 5      | Eye Dam., H318 /   |

**REACH**

| CAS No   | Name                        | REACH registration number |
|----------|-----------------------------|---------------------------|
| 79-41-4  | methacrylic acid            | 01-2119463884-26          |
| 868-77-9 | 2-hydroxyethyl methacrylate | 01-2119490169-29          |
| 80-15-9  | cumene hydroperoxide        | 01-2119475796-19          |
| 107-21-1 | ethanediol                  | 01-2119456816-28          |

**Additional advice**

CAS: 80-15-9: STOT SE3; H335: 1% < C < 10%

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Remove contaminated soaked clothing immediately.

**In case of inhalation**

Ensure of fresh air.

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 thoroughly with plenty of water and seek medical advice.

**In case of ingestion**

Do not induce vomiting.

Refer to medical treatment.

If swallowed give water to drink.

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

**Physician's information / possible symptoms**

Allergic symptoms

Nausea

Confusion

skin irritation



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**Physician's information / possible dangers**

Causes serious eye damage.

**4.3. Indication of any immediate medical attention and special treatment needed**

No information available.

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Foam

Dry fire-extinguishing substance

Carbon dioxide

sand

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.

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**

Cool endangered containers with water spray jet.

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



## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

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

#### 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 only in 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.

Do not store together with reducing agents.

Do not store together with metals.

#### Further information on storage conditions

Store at +5 till +25 °C.

Protect from heat and direct solar radiation.

Store container at cool and aired 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

#### Ingredients with occupational exposure limits to be monitored

| CAS No   | Name                         | Code       | [mg/m <sup>3</sup> ] | [ppm] | Remark    |
|----------|------------------------------|------------|----------------------|-------|-----------|
| 107-21-1 | Ethane-1,2-diol: particulate | 8 hours    | 10                   |       | EH40/2005 |
| 107-21-1 | Ethane-1,2-diol: vapour      | 8 hours    | 52                   | 20    | EH40/2005 |
|          |                              | Short-term | 104                  | 40    |           |
| 79-41-4  | Methacrylic acid             | 8 hours    | 72                   | 20    | EH40/2005 |
|          |                              | Short-term | 143                  | 40    |           |

#### Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)

| CAS No   | Name       | Code       | [mg/m <sup>3</sup> ] | [ppm] | Remark |
|----------|------------|------------|----------------------|-------|--------|
| 107-21-1 | ethanediol | 8 hours    | 52                   | 20    | skin   |
|          |            | Short-term | 104                  | 40    |        |



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**WEICONLOCK AN 302-50****DNEL-/PNEC-values****DNEL worker**

| CAS No   | Substance name              | Value                  | Code                                 | Remark |
|----------|-----------------------------|------------------------|--------------------------------------|--------|
| 79-41-4  | methacrylic acid            | 88 mg/m <sup>3</sup>   | DNEL long-term inhalative (local)    |        |
|          |                             | 29,6 mg/m <sup>3</sup> | DNEL long-term inhalative (systemic) |        |
|          |                             | 4,25 mg/kg bw/day      | DNEL long-term dermal (systemic)     |        |
| 80-15-9  | cumene hydroperoxide        | 6 mg/m <sup>3</sup>    | DNEL long-term inhalative (systemic) |        |
| 868-77-9 | 2-hydroxyethyl methacrylate | 4,9 mg/m <sup>3</sup>  | DNEL long-term inhalative (systemic) |        |
|          |                             | 1,3 mg/kg bw/day       | DNEL long-term dermal (systemic)     |        |

**PNEC**

| CAS No   | Substance name              | Value      | Code                              | Remark |
|----------|-----------------------------|------------|-----------------------------------|--------|
| 79-41-4  | methacrylic acid            | 0,82 mg/l  | PNEC soil, marine water           |        |
|          |                             | 0,82 mg/l  | PNEC soil, freshwater             |        |
|          |                             | 10 mg/l    | PNEC sewage treatment plant (STP) |        |
| 868-77-9 | 2-hydroxyethyl methacrylate | 3,79 mg/kg | PNEC soil, freshwater             |        |
|          |                             | 10 mg/l    | PNEC sewage treatment plant (STP) |        |
|          |                             | 0,482 mg/l | PNEC soil, 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.

Breathing apparatus in the event of aerosol or mist formation.

**Hand protection**

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

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]: fluorinated rubber; 0,7mm; 480min; 60min;

**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**

colourless

**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>decomposition 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>                              | not determined |             |    |                 |                                   |
| <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>                                  | 1,1 g/ml       |             |    |                 |                                   |
| <b>Vapour density</b>                                    | not determined |             |    |                 |                                   |
| <b>Solubility in water</b>                               |                | 20 °C       |    |                 | low soluble                       |
| <b>Solubility/other</b>                                  |                |             |    | Organic solvent | teilweise mischbar                |
| <b>Partition coefficient n-octanol/water (log P O/W)</b> | not determined |             |    |                 |                                   |
| <b>Decomposition temperature</b>                         | not determined |             |    |                 |                                   |
| <b>Viscosity</b>   | ca. 3500 mPa*s | 25 °C       |    |                 |                                   |

**Oxidising properties**

No information available.

**Explosive properties**

no

**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**

Reactions with strong oxidising agents.

Reactions with reducing agents.

Reactions with Metals.

**10.4. Conditions to avoid**

Metal, Metal-Salts

Keep away from heat.

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

radical former

Oxidising agent, strong

Reducing agent, strong

Metal, Metal-Salts

**10.6. Hazardous decomposition products**

Gases/vapours, toxic

Carbon monoxide and carbon dioxide.

**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>       | 382 mg/kg                              | rat     |        | CAS: 80-15-9 |
| <b>LD50 acute dermal</b>     | 440 mg/kg                              | rabbit  |        | CAS: 75-91-2 |
| <b>LC50 acute inhalation</b> | 1,85 mg/l ( )                          | rat     | Gas    | CAS: 75-91-2 |
| <b>Skin irritation</b>       | irritant                               |         |        |              |
| <b>Eye irritation</b>        | irritant - risk of strong eye injuries |         |        |              |





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## WEICONLOCK AN 302-50

|                           | Value/Validation | Species | Method | Remark |
|---------------------------|------------------|---------|--------|--------|
| <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

May irritate the mucosae.

Sensitization through skin contact possible.

Risk of strong eye injuries.

Irritates eyes and skin.

### 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 3,9 mg/l (96 h)  | Oncorhynchus mykiss       |        | CAS: 80-15-9 |
| <b>Daphnia</b>  | EC50 14,1 mg/l (48 h) | Daphnia magna             |        | CAS: 75-91-2 |
| <b>Algae</b>    | EC50 45 mg/l (72 h)   | Selenastrum capricornutum |        | CAS: 79-41-4 |
| <b>Bacteria</b> | EC50 17 mg/l (48 h)   | activated sludge          |        | CAS: 75-91-2 |

### 12.2. Persistence and degradability

|                                 | Elimination rate                   | Method of analysis | Method | Validation         |
|---------------------------------|------------------------------------|--------------------|--------|--------------------|
| <b>Biological degradability</b> | 90 - 100 % (10 d)<br>CAS: 107-21-1 |                    |        | readily degradable |
| <b>Degradability</b>            | 84 % (28 d)<br>CAS: 868-77-9       |                    |        | readily degradable |

### 12.3. Bioaccumulative potential

No information available.

### 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

Do not allow uncontrolled leakage of product into the 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 was derived from products of similar structure or composition.

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Waste code No.

08 04 09\*

##### Name of waste

waste adhesives and sealants containing organic solvents or other hazardous substances

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.

#### 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.



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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 ca.5 %

VOC value 45,9 g/L

### 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: 8.5

|      |  |
|------|--|
| H226 | Flammable liquid and vapour.   |
| H242 | Heating may cause a fire.  |
| 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.   |
| H318 | Causes serious eye damage.   |
| H319 | Causes serious eye irritation.   |
| H330 | Fatal if inhaled.  |
| H331 | Toxic if inhaled.  |
| H341 | Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).   |
| H373 | May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard). |
| H411 | Toxic to aquatic life with long lasting effects.   |