

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

**Name of product** WEICONLOCK AN 302-41  
Code-Nr. 302410

**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
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Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
Skin Sens. 1	H317	
STOT SE 3	H335	

**Hazard Statements**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

## 2.2. Label elements

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



GHS07

#### Signal word

Warning

#### Hazard Statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
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.
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.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
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.
P362 + P364	Take off contaminated clothing and wash it before reuse.
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

#### 2.3. 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



## Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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revision 04.01.2019 (GB) Version 8.5

**WEICONLOCK AN 302-41****! Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
868-77-9	212-782-2	2-hydroxyethyl methacrylate	1 - 5	Eye Irrit. 2, H319 / Skin Irrit. 2, H315 / Skin Sens. 1, H317
107-21-1	203-473-3	ethanediol	1 - 5	Acute Tox. 4, H302
80-15-9	201-254-7	cumene hydroperoxide	1 < 2,5	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
79-41-4	201-204-4	methacrylic acid	< 1	Acute Tox. 4, H302, H332 / Acute Tox. 3, H311 / Skin Corr. 1A, H314 / Eye Dam. 1, H318 / STOT SE 3, H335

**REACH**

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

**Additional advice**

CAS: 80-15-9: STOT SE3; H335: 1% &lt; C &lt; 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

skin irritation

**Physician's information / possible dangers**

allergic reactions

**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**

Risk of formation of toxic pyrolyse products.

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.

#### **Additional information**

Cool endangered containers with water spray jet.

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## **! SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **For non-emergency personnel**

Ensure adequate ventilation.

Use personal protective clothing.

Use breathing apparatus if exposed to vapours/dust/aerosol.

### **6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

### **6.3. Methods and material for containment and cleaning up**

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**

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 +15 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	

**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)	



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**WEICONLOCK AN 302-41****DNEL-/PNEC-values (continued)**

CAS No	Substance name	Value	Code	Remark
868-77-9	2-hydroxyethyl methacrylate	1,3 mg/kg bw/day	DNEL long-term dermal (systemic)	
		4,9 mg/m <sup>3</sup>	DNEL long-term inhalative (systemic)	

**PNEC**

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

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**

blue

**Odour**

hardly noticeable

**Odour threshold**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	not determined				



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	Value	Temperature	at	Method	Remark
<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>	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>	not determined				
<b>Relative density</b>	1,1 g/ml				
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>					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. 150 mPa*s	25 °C			
<b>Oxidising properties</b>	No information available.				
<b>Explosive properties</b>	not determined				
<b>9.2. Other information</b>	No information available.				

**! SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

Reactions with 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

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>	1000 mg/kg	rabbit		CAS: 79-41-4
<b>LC50 acute inhalation</b>	7,1 mg/l ( )	rat		CAS: 79-41-4
<b>Skin irritation</b>	irritant			
<b>Eye irritation</b>	irritant - risk of strong eye injuries			
<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.





Value	Species	Method	Validation
<b>Carcinogenicity</b>			No indications of carcinogenic effects are available from long-term trials.

**! Specific target organ toxicity (single exposure)**

May cause drowsiness or dizziness.

**Experiences made from practice**

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.

No toxicological data available.

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

	Value	Species	Method	Validation
<b>Fish</b>	LC50 3,9 mg/l (96 h)	rainbow trout		CAS: 80-15-9
<b>Daphnia</b>	EC50 > 100 mg/l (48 h)	Daphnia magna		CAS: 107-21-1
<b>Algae</b>	LOEC 45 mg/l (72 h)	Selenastrum capricornutum		CAS: 79-41-4
<b>Bacteria</b>	EC50 270 mg/l (17 h)	Pseudomonas putida		CAS: 79-41-4

**12.2. Persistence and degradability**

	Elimination rate	Method of analysis	Method	Validation
<b>Biological degradability</b>	90 - 100 % (10 d) CAS: 107-21-1			Biodegradable
<b>Degradability</b>	CAS: 80-15-9			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 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.**

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.		

## ! SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**VOC standard**

VOC content ca.3 %

VOC value 28 g/L

### 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: 8.4

H242	Heating may cause a fire.
H302	Harmful if swallowed.
H302,	-?-
<b>H332</b>	Toxic in contact with skin.
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.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
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.