

## Introduction

This one-component stainless steel glue, manufactured by Weiconlock, offers rapid and high strength connections without activator.

## FEATURES

One component  
No activator needed  
Cure times up to 30% faster than standard types  
Resistant to temperatures up to +180OC and down to -60OC  
Use for locking, retaining and sealing  
Pack size 50 ml

## SPECIFICATION

Colour: Green  
For threaded joints up to: M20 R $\frac{3}{4}$ "  
Viscosity at +25OC: 700 – 1000 nt  
Gap filling capacity (max): 0.15mm  
Breakaway strength (threads): 15-20 N/m  
Prevailing strength (threads): 30-35 N/m  
Shear strength (DIN 54452): 15-20 N/mm<sup>2</sup>  
Time to attain handling strength at room temperature: 5 to 10 minutes  
Time to attain full strength at room temperature: 6 to 12 hours  
Temperature resistance -60OC to +180OC

## MANUFACTURER

WEICONLOCK AN 306-10

[www.weicon.de](http://www.weicon.de)

**PLEASE SEE FOLLOWING PAGES FOR  
MANUFACTURER'S MATERIAL SAFETY DATASHEET (NB:  
PLEASE DOWNLOAD FULL PDF TO VIEW THIS)**

## CONTACT

**Address:** Please make contact directly with your local service centre, which can be found via the Locations page of our web site.  
**Web:** [www.amari-ireland.com](http://www.amari-ireland.com)

## REVISION HISTORY

Datasheet Updated 02 December 2014

## DISCLAIMER

This Data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

Please note that the 'Datasheet Update' date shown above is no guarantee of accuracy or whether the datasheet is up to date.

The information provided in this datasheet has been drawn from various recognised sources, including EN Standards, recognised industry references (printed & online) and manufacturers' data. No guarantee is given that the information is from the latest issue of those sources or about the accuracy of those sources.

Material supplied by the Company may vary significantly from this data, but will conform to all relevant and applicable standards.

As the products detailed may be used for a wide variety of purposes and as the Company has no control over their use; the Company specifically excludes all conditions or warranties expressed or implied by statute or otherwise as to dimensions, properties and/or fitness for any particular purpose, whether expressed or implied.

Advice given by the Company to any third party is given for that party's assistance only and without liability on the part of the Company. All transactions are subject to the Company's current Conditions of Sale. The extent of the Company's liabilities to any customer is clearly set out in those Conditions; a copy of which is available on request.



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

Printed 11.02.2011

Revision 10.02.2011 (GB) Version 6.0

**WEICONLOCK AN 306-10 (GB)**

## 1. Identification of the substance/mixture and of the company/undertaking

### Product Identifier

#### Name of product

WEICONLOCK AN 306-10 (GB)  
Code-Nr. 306100

### Manufacturer/distributor

WEICON GmbH & Co. KG  
Königsberger Straße 255, DE-48157 Münster  
Postbox 84 60, DE-48045 Münster  
Phone ++49(0)251 / 9322 - 0, Fax ++49(0)251 / 9322-244  
E-Mail : [info@weicon.de](mailto:info@weicon.de)  
Internet : [www.weicon.de](http://www.weicon.de)

### Advice

Abteilung Angebote, Verkauf, Export  
Phone ++49(0)251 / 9322 - 0

### Emergency advice

Giftnotruf Bonn: Bei Vergiftungen (in case of poisoning)  
Phone ++49(0)228-19 240

### Recommended intended purpose(s)

1-Component Adhesives and Sealants, anaerobic curing

## 2. Hazards identification

### Classification according to 67/548/EEC or 1999/45/EC

Xi; R36/37/38

R43

#### R-phrases

36/37/38 Irritating to eyes, respiratory system and skin.  
43 May cause sensitisation by skin contact.

### Labelling according to 67/548/EEC or 1999/45/EC

#### Remarks for labelling

The product is classified and labelled in accordance with EC directives.

Xi Irritant

#### R-phrases

36/37/38 Irritating to eyes, respiratory system and skin.  
43 May cause sensitisation by skin contact.

#### S-phrases

2 Keep out of the reach of children.  
24/25 Avoid contact with skin and eyes.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
28 After contact with skin, wash immediately with plenty of water and soap.  
37/39 Wear suitable gloves and eye/face protection.  
46 If swallowed, seek medical advice immediately and show this container or label.

### Hazardous ingredients for labeling

2-hydroxyethyl methacrylate



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### 3. Composition/information on ingredients

#### Description

Anaerobic adhesive / sealant

#### Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
79-10-7	201-177-9	acrylic acid	< 3	R10; Xn R20/21/22; C R36; N R50
		monoalkyl or monoaryl or monoalkylaryl esters of methacrylic acid with the exception of those specified elsewhere in this Annex	> 10	Xi R36/37/38
968-77-9	212-782-2	2-hydroxyethyl methacrylate	< 20	Xi R36/38; R43
90-15-9	201-254-7	cumene hydroperoxide	1	O R7; T R23; Xn R21/22-48/20/22; C R34; N R51-53
27813-02-1	248-666-3	methyl acrylic acid ester	< 20	Xi R36/37/38

### 4. First aid measures

#### General information

Remove contaminated soaked clothing immediately.

#### In case of inhalation

Ensure of fresh air.

#### In case of skin contact

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

#### 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.

### 5. Firefighting measures

#### Suitable extinguishing media

Foam

Dry fire-extinguishing substance

Carbon dioxide

sand

Water spray jet

#### Special hazards arising from the substance or mixture

Fire gas of organic material has to be classed invariably as respiratory poison.

#### 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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## 6. Accidental release measures

### Personal precautions

Ensure adequate ventilation.

### Environmental precautions

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

Do not discharge into the subsoil/soil.

### Methods for cleaning up

Take up with absorbent material.

After taking up the material dispose according to regulation.

## 7. Handling and storage

### Further information on storage conditions

Store only in original container at temperature of 28°C maximum (=80°F).

Protect from direct solar radiation.

Keep cool.

## 8. Exposure controls/personal protection

### Respiratory protection

Breathing apparatus in the event of aerosol or mist formation.

### Hand protection

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

safety goggles

### Skin protection

protective clothing

### General protective measures

Do not inhale vapours.

Avoid contact with eyes and skin

### Hygiene measures

Wash hands before breaks and after work.

Use barrier skin cream.

## 9. Physical and chemical properties

### Form

verschiedene

### Colour

various

### Odour

hardly noticeable

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value in delivery state</b>	3-5				
<b>Flash point</b>	> 100 °C			DIN/ISO 2592	
<b>Autoignition</b>	> 380 °C				



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	Value	Temperature	at	Method	Remark
<b>Vapour pressure</b>	< 5 mbar	20 °C		DIN 51618	
<b>Density</b>	1-1,1 g/ml	20 °C		DIN 51757	
<b>Solubility in water</b>		20 °C			more or less insoluble
<b>Viscosity dynamic</b>	500-6000 mPa's	25 °C		Brookfield-Visk.	

## 10. Stability and reactivity

### Conditions to avoid

Keep away from heat.

### Materials to avoid

Reactions with metals.  
Reactions with strong acids and alkalis.  
Reactions with strong oxidising agents.

### Hazardous decomposition products

Carbon monoxide and carbon dioxide.  
Nitrous oxides (NOx)

### Additional information

Polymerization at temperatures exceeding 100 °C

## 11. Toxicological information

### Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	> 5000 mg/kg	rat		
<b>Irritability skin</b>	irritant			
<b>Irritability eye</b>	irritant			
<b>Skin sensitization</b>	sensitizing			

### Experiences made from practice

Sensitization through skin contact possible.

### Additional information

Labelling in compliance with the assessment procedure specified in the EC guidelines 1999/45/EC.

## 12. Ecological information

### General regulation

Do not allow uncontrolled leakage of product into the environment.  
Product is not allowed to be discharged into aquatic environment.





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### 13. Disposal considerations

**Recommendations for the product**

Remove in accordance with local official regulations.

**Recommendations for packaging**

Dispose of according to the local waste regulations.

### 14. Transport information

**Transport/further information**

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

### 15. Regulatory information

### 16. Other information

**Recommendend uses and restrictions**

National and local regulations concerning chemicals shall be observed.

**Further information**

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.

**Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)**

R 10 Flammable.

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 21/22 Harmful in contact with skin and if swallowed.

R 23 Toxic by inhalation.

R 34 Causes burns.

R 35 Causes severe burns.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 36/38 Irritating to eyes and skin.

R 43 May cause sensitisation by skin contact.

R 48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R 50 Very toxic to aquatic organisms.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 7 May cause fire.

## Introduction

E4054 products are high quality anaerobic adhesives and sealants on the basis of special methacrylate resins, especially made for economical threadlocking, retaining and sealing of threaded, cylindrical and pipe assemblies.



Retaining cylindrical assemblies, for passive materials such as stainless steel, aluminium, etc., fast bonding without activator; medium viscosity, high strength, hard to disassemble

## Technical data

Application	Retaining cylindrical assemblies, for passive materials
Features	medium viscosity, high strength
Colour	green
For threaded joints up to	M 20 R ¾"
Viscosity at +25°C Brookfield	700 - 1.000 nt mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	30 - 35 Nm
Prevailing strength (Thread)	55 - 70 Nm
Shear strength (DIN 54452)	25 - 35 N/mm²
Handling strength at room temperature	2 - 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 to +180 °C

## Pretreatment of the surface

In general, E4054 does not require special pretreatment as slightly oily surfaces (e.g. on as received parts) will be tolerated. However, best results will be achieved on cleaned, degreased parts (use a surface cleaner). If required, the parts should be slightly roughened.

## Processing

E4054 is ready for use and should be applied evenly direct from the bottle/tube with the dispensing tip (avoid direct contact of dispensing tip with metal). On press fitted parts and larger cylindrical assemblies a thin and uniform layer should be applied on both surfaces. In the case of threaded blind holes fill sufficient quantity in the bore hole. On screws and bolts, apply E4054 around the thread.

Do not pour back into the bottle any E4054 fluid which had contact with metal; even smallest metal particles will cause the content of the bottle to cure. In series construction, the use of manual or automatic applicators is recommended.

## Storage

E4054 can be stored in the unopened original container for at least one year at room temperature. Keep away from heat sources and direct sunlight. The air in the bottle/tube keeps E4054 liquid.

## Note

E4054 adhesives and sealants generally do not cause allergic reactions of the skin. However, in isolated cases where skin is continuously bruised or micro-lacerated sensitisation may occur. Therefore, extensive and direct contact with the skin should be avoided, e.g. by use of E4054 Hand Protective Foam. See further details in the Material Safety Data Sheets which are available upon request.

The specifications and recommendations given in this technical data sheet must not be seen as guaranteed product characteristics. They are based on our laboratory tests and on practical experience. Since individual application conditions are beyond our knowledge, control and responsibility. This information is provided without any obligation. We do guarantee the continuously high quality of our products. However, own adequate laboratory and practical tests to find out if the product in question meets the requested properties are recommended. A claim cannot be derived from them. The user bears the only responsibility for non-appropriate or other than specified applications.