

No. 1907/2006 (REACH) Printed 21.12.2018

revision 17.12.2018 (GB) Version 8.4

RIEGLER LOCK AN 302-70 / 50 ml

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

1.1. Product identifier

Name of product RIEGLER LOCK AN 302-70 / 50 ml

Code-Nr. ID-Nr. 114558

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

Manufacturer/distributor RIEGLER & Co. KG

Schützenstr. 27, D-72574 Bad Urach

Phone: +49 (0) 7125/9497-0, Fax: +49 (0) 7125/9497-97

E-Mail: zedok@riegler.de Internet: www.riegler.de

Advice Abteilung eDocumentation

Phone : +49 (0) 7125/9497-0 Fax: +49(0)7125/9497-97 E-mail (competent person):

zedok@riegler.de

Hazard Statements Classification procedure

1.4. Emergency telephone number

Giftnotrufzentrale Bonn **Emergency advice**

Phone : +49(0)228-19 240

SECTION 2: Hazards identification

Hazard classes and Hazard

2.1. Classification of the substance or mixture

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

categories		
Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
Skin Sens. 1	H317	
0.707.07.0	1100=	

STOT SE 3 H335 **Aquatic Chronic 4** H413

Hazard Statements

H315 Causes skin irritation.

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

H413 May cause long lasting harmful effects to aquatic life.

2.2. Label elements



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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.

H413 May cause long lasting harmful effects to aquatic life.

Precautionary Statements

P102	Keep out of reach of children.
P261 P264 P271 P272 P273 P280	Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/eye protection.
P302 + P352 P304 + P340 P305 + P351 + P338 P312 P333 + P313 P337 + P313 P362 P363	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing. Wash contaminated clothing before reuse.
P403 + P233 P405	Store in a well-ventilated place. Keep container tightly closed. Store locked up.

! Hazardous ingredients for labeling

BISPHENOL A ETHOXYLATE DIMETHACRYLATE, cumene hydroperoxide, Methacrylic acid, monoester with propane-1,2-diol, (2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triyl)tri-2,1-ethanediyl triacrylate

Dispose of contents/container to hazardous or special waste collection point.

2.3. Other hazards

P501

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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CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	
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	
27813-02-1	248-666-3	Methacrylic acid, monoester with propane-1,2-diol	10 - 30	Eye Irrit. 2, H319 / Skin Sens. 1, H317	
107-21-1	203-473-3	ethanediol	< 1	Acute Tox. 4, H302 / STOT RE 2, H373	
41637-38-1	609-946-4	BISPHENOL A ETHOXYLATE DIMETHACRYLATE	60 - 100	Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Eye Irrit. 2, H319 / STOT SE 3, H335 / Aquatic Chronic 4, H413	
40220-08-4	254-843-6	(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triyl)tri-2,1-ethanediyl triacrylate	1 < 3	Eye Dam., H318 /	
REACH					
CAS No	Name			REACH registration number	
80-15-9	cumene hydr	operoxide		01-2119475796-19	
27813-02-1	Methacrylic a	cid, monoester with propane-1,2-diol	01-2119490226-37		
107-21-1	ethanediol		01-2119456816-28		
41637-38-1	BISPHENOL	A ETHOXYLATE DIMETHACRYLATE	01-2119980659-17		

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

Headache

Allergic symptoms

skin irritation

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 (CO2)

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.

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

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.



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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.

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/m3]	[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 Short-term	52 104	20 40	EH40/2005

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

CAS No	Name	Code		[mg/m3]	[ppm]	Remark
107-21-1	ethanediol	8 hours Short-term		52 104	20 40	skin
DNEL-/PNEC-v DNEL worker	alues					
CAS No	Substance name	Value	Code			Remark

27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	4,2 mg/kg bw/day	DNEL long-term dermal (systemic)	
80-15-9	cumene hydroperoxide	6 mg/m3	DNEL long-term inhalative (systemic)	
PNEC				
CAS No	Substance name	Value	Code	Remark
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	10 mg/l	PNEC sewage treatment plant (STP)
		6,28 mg/kg	PNEC sediment, marine water	
		6 28 ma/ka	PNEC sediment freshwater	



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DNEL-/PNEC-values (continued)

CASI	lo	Substance name	Value	Code	Remark
			0,904 mg/l	PNEC aquatic, freshwater	
			0,904 mg/l	PNEC aquatic, marine water	
			0,727 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.

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.

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 Colour Odour

liquid green hardly noticeable

Odour threshold not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
boiling point	not determined				
melting point	not determined				
Flash point	> 100 °C				
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				



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	Value	Temperature	at	Method	Remark
Ignition temperature	not determined				
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	1,1 g/ml				
Vapour density	not determined				
Solubility in water		20 °C			low soluble
Solubility/other			Organic solvent		teilweise mischbar
Partition coefficient n- octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	ca. 550 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.



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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
LD50 acute oral	2000 mg/kg	rat		CAS: 27813-02-1
LD50 acute dermal	5000 mg/kg	rabbit		CAS: 27813-02-1
LC50 acute inhalation	3 mg/l ()		estimate	CAS: 80-15-9
Skin irritation	irritant			
Eye irritation	irritant - risk of strong eye injuries			
Skin sensitization	sensitizing			

Subacute Toxicity - Carcinogenicity						
	Value	Species	Method	Validation		
Mutagenicity				No experimental information on genotoxicity in vitro available.		
Reproduction- Toxicity				No indications of toxic effects were observed in reproduction studies in animals.		
Carcinogenicity				No indications of carcinogenic effects are available from long-term trials.		

Experiences made from practice

Sensitization through skin contact possible. Risk of strong eye injuries.

Irritates eyes and skin.



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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 products of similar composition.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

Locioxicologic	Value	Species	Method	Validation
Fish	LC50 3,9 mg/l (96 h)	Oncorhynchus	mykiss	CAS: 80-15-9
Daphnia	NOELR 100 mg/l (48 h)	Daphnia magna	1	CAS: 41637-38-1
Algae	EC50 > 97,2 mg/l (72 h)	Pseudokirchner subcapitata	iella	CAS: 27813-02-1
Bacteria	NOEC 10 mg/l (3 h)	activated sludge	Э	CAS: 41637-38-1
12.2. Persisten	ce and degradability Elimination rate	Method of analysis	Method	Validation
Biological				Biodegradable
degradability	CAS: 41637-38-1			
Degradability	94,2 % (28 d)			readily degradable
	CAS: 27813-02-1			

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

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 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.

Name of waste

08 04 09*

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.



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! Recommendations for packaging

Dispose of according to the local waste regulations.

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

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 26,7 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.

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: 8.3

H242 Heating may cause a fire.



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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.
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.
H413	May cause long lasting harmful effects to aquatic life.