

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

1.1. Product identifier

Name of product

RIEGLER LOCK AN 301-43 / 50 ml / 250 ml Code-Nr. ID-Nr. 114545/-46

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 |
| 1.4. Emergency telephone number | |
| Emergency advice | Giftnotrufzentrale Bonn Phone : +49(0)228-19 240 |

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 categories | Hazard Hazard Statements Classification procedure |
|--|---|
| Aquatic Chronic 3 | H412 |
| Hazard Statements H412 | Harmful to aquatic life with long lasting effects. |
| 2.2. Label element Labelling accordir | s g to Regulation (EC) No 1272/2008 [CLP/GHS] |
| Hazard Statements H412 | Harmful to aquatic life with long lasting effects. |
| Precautionary Stat | ements Keep out of reach of children. |
| P273 | Avoid release to the environment. |
| P501 | Dispose of contents/container to hazardous or special waste collection point. |
| 2.3. Other hazards Results of PBT an | d 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

! Hazardous ingredients

| CAS No | EC No | Name | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] |
|----------|--------------|--|---------------|---|
| 80-15-9 | 201-254-7 | alpha,alpha-dimethylbenzyl hydroperoxide | 0,25 - 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 |
| 128-37-0 | 204-881-4 | 2,6-Di-tertbutyl-p-cresol | 0,25 - 1 | Aqu. Acute 1, H400 M=1 / Aqu. Chronic 1, H410 M=1 |
| 114-83-0 | 204-055-3 | 2-Phenylacetohydrazid | 0,1 < 1 | Acute Tox. 3, H301 |
| REACH | | | | |
| CAS No | Name | | | REACH registration number |
| 80-15-9 | alpha,alpha- | dimethylbenzyl hydroperoxide | | 01-2119475796-19 |
| 128-37-0 | 2,6-Di-tertb | utyl-p-cresol | | 01-2119555270-46 |
| 114-83-0 | 2-Phenylace | tohydrazid | | not subject to registration |

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.

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

Seek medical advice. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

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

No information available.

4.3. Indication of any immediate medical attention and special treatment needed No information available.



SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Fire-extinguishing activities according to surrounding.

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. Nitrogen oxides (NOx) 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. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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).

Ventilate area concerned 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 No special measures necessary if used correctly.

General protective measures

Do not inhale vapours. Avoid contact with eyes and skin



Hygiene measures

At work do not eat, drink and smoke. Keep separated from food and feed. 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 metals.

Further information on storage conditions

Store closed container at cool and aired place. Protect from heat and direct solar radiation. Store in a dry 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 |
|--------------------------|----------------------------|-----------------------|-----------------------------------|----------------|--------|-----------|
| 98-82-8 | Cumene | 8 hours Short-term | 125 250 | 25 50 | | EH40/2005 |
| 128-37-0 | 2,6-Di-tert-butyl-p-cresol | 8 hours | 10 | | | EH40/2005 |
| DNEL-/PNEC DNEL worke | | | | | | |
| CAS No | Substance name | Value | Code | | Remark | |
| 128-37-0 | 2,6-Di-tertbutyl-p-cresol | 0,5 mg/kg bw/day | DNEL long-term derr | nal (systemic) | | |
| | | 3,5 mg/kg bw/day | DNEL long-term inha (systemic) | lative | | |
| PNEC | | | | | | |
| CAS No | Substance name | Value | Code | | Remark | |
| 128-37-0 | 2,6-Di-tertbutyl-p-cresol | 0,0199 µg/l | PNEC aquatic, marir | ne water | | |
| | | 0,199 µg/l | PNEC aquatic, fresh | water | | |
| | | 47,69 μg/l | PNEC soil, freshwate | er | | |
| | | 99,6 µg/l | PNEC sediment, fres | shwater | | |

! 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.

Hand protection

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

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]:: Nitrile rubber; 0,4mm; 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 | Colour | Odour | | | | |
| liquid | blue | mild | | | | |
| 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 applicable | | | | |
| Flammability (gas) | not applicable | | | | |
| 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 | 1,12 g/cm3 | 25 °C | | | |



 Safety Data Sheet according to Regulation (EC)

 No. 1907/2006 (REACH)

 Printed
 21.12.2018

 revision
 17.12.2018 (GB) Version 9.2

 RIEGLER LOCK AN 301-43 / 50 ml / 250 ml

| | Value | Temperature | at | Method | Remark |
|--|----------------------|-------------|----|----------------------|-------------------------|
| Vapour density | not determined | | | | |
| Solubility in water | | 20 °C | | | No or low immiscibility |
| Solubility/other | not determined | | | | |
| Partition coefficient n- octanol/water (log P O/W) | not determined | | | | |
| Decomposition temperature | not determined | | | | |
| Viscosity dynamic | 1500 - 3000 mPa*s | 25 °C | | Brookf-Visk.RVT Sp.3 | |
| Viscosity kinematic | not determined | | | | |
| Oxidising properties No information available. | | | | | |
| Explosive properties not applicable | | | | | |
| 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 Metal-Salts.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

Substances to avoid Metal, Metal-Salts

10.6. Hazardous decomposition products

Gases/vapours, toxic Carbon monoxide and carbon dioxide. Nitrous oxides (NOx)

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 | 270 mg/kg | rat | | CAS: 114-83-0 |
| LD50 acute dermal | 500 mg/kg | rat | | CAS: 80-15-9 |
| LC50 acute inhalation | 24,7 mg/l (4 h) | mouse | | CAS: 98-82-8 |
| Skin irritation | low irritant effect - not necessary to label | | | |
| Eye irritation | low irritant - no labeling duty | | | |
| Skin sensitization | non-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

Often and long skin contact may cause degreasing and desiccation of the skin which may caus skin irritation. Frequent persistent contact with the skin may cause skin irritation.

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 | | | |
| Algae | EC50 2,6 mg/l (72 h) | Green algae | | CAS: 98-82-8 | | | |

12.2. Persistence and degradability

No information available.

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.

Even in the event of low quantities penetration into the underground drinking water is contaminated. 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.

SECTION 13: Disposal considerations

| 13.1. Waste treatment methods | |
|-------------------------------|---|
| Waste code No. | Name of waste |
| 08 04 10 | waste adhesives and sealants other than those mentioned in 08 04 09 |

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

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.

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: 9.1

- H242 Heating may cause a fire.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H331 Toxic if inhaled.
- 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).
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.