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

1.1. Product identifier
Name of product       WEICONLOCK AN 301-48 (GB)
Code-Nr. 301480

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
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
Internet : www.weicon.de

Advice
Abteilung Angebote, Verkauf, Export
Phone ++49(0)251 / 9322 - 0
E-mail (competent person):
info@weicon.de

1.4. Emergency telephone number
Emergency advice
Giftnotruf Bonn: Bei Vergiftungen (in case of poisoning)
Phone ++49(0)228-19 240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to 67/548/EEC or 1999/45/EC
Xi; R37/38
Xi; R41
R43
R-phrases
37/38 Irritating to respiratory system and skin.
41 Risk of serious damage to eyes.
43 May cause sensitisation by skin contact.

2.2. Label elements
Labelling according to 1999/45/EC
Remarks for labelling
The product is classified and labelled in accordance with EC directives.
Xi Irritant

R-phrases
37/38 Irritating to respiratory system and skin.
41 Risk of serious damage to eyes.
43 May cause sensitisation by skin contact.
S-phrases
2 Keep out of the reach of children.
24 Avoid contact with skin.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39 Wear suitable gloves and eye/face protection.
46 If swallowed, seek medical advice immediately and show this container or label.
Safety Data Sheet according to Regulation (EC)
No. 1907/2006 (REACH)
Printed 17.05.2013
revision 06.05.2013   (GB) Version 8.0
WEICONLOCK AN 301-48 (GB)

Hazardous ingredients for labeling
maleic acid, Methacrylic acid, monoester with propane-1,2-diol

2.3. Other hazards

Results of PBT and vPvB assessment
This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

SECTION 3: Composition/ information on ingredients

3.1. Substances
not applicable

3.2. Mixtures

Description
Anaerobic adhesive / sealant

Hazardous ingredients

<table>
<thead>
<tr>
<th>CAS No</th>
<th>EC No</th>
<th>Name</th>
<th>[% weight]</th>
<th>Classification according to 67/548/EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>79-10-7</td>
<td>201-177-9</td>
<td>acrylic acid</td>
<td>&lt; 5</td>
<td>R10; Xn R20/21/22; C R35; N R50</td>
</tr>
<tr>
<td>80-15-9</td>
<td>201-254-7</td>
<td>alpha,alpha-dimethylbenzyl hydroperoxide</td>
<td>&lt; 5</td>
<td>O R7; T R23; Xn R21/22/48/20/22; C R34; N R51-53</td>
</tr>
<tr>
<td>98-82-8</td>
<td>202-704-5</td>
<td>cumene</td>
<td>&lt; 5</td>
<td>R10; Xn R65; Xi R37; N R51-53</td>
</tr>
<tr>
<td>27813-02-1</td>
<td>248-666-3</td>
<td>Methacrylic acid, monoester with propane-1,2-diol</td>
<td>&gt;= 30</td>
<td>Xn R36; R43</td>
</tr>
<tr>
<td>110-16-7</td>
<td>110-16-7</td>
<td>maleic acid</td>
<td>&lt; 5</td>
<td>Xn R22; Xi R36/37/38; R43</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS No</th>
<th>EC No</th>
<th>Name</th>
<th>[% weight]</th>
<th>Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]</th>
</tr>
</thead>
<tbody>
<tr>
<td>79-10-7</td>
<td>201-177-9</td>
<td>acrylic acid</td>
<td>&lt; 5</td>
<td>Flam. Liq. 3, H226 / Acute Tox. 4, H332 / Acute Tox. 4, H312 / Acute Tox. 4, H302 / Skin Corr. 1A, H314 / Aquatic Acute 1, H400</td>
</tr>
<tr>
<td>98-82-8</td>
<td>202-704-5</td>
<td>cumene</td>
<td>&lt; 5</td>
<td>Flam. Liq. 3, H226 / Asp. Tox. 1, H304 / STOT SE 3, H335 / Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>27813-02-1</td>
<td>248-666-3</td>
<td>Methacrylic acid, monoester with propane-1,2-diol</td>
<td>&gt;= 30</td>
<td>Eye Irrit. 2, H319 / Skin Sens. 1, H317</td>
</tr>
<tr>
<td>110-16-7</td>
<td>110-16-7</td>
<td>maleic acid</td>
<td>&lt; 5</td>
<td>Acute Tox. 4, H302 / Eye Irrit. 2, H319 / STOT SE 3, H338 / Skin Irrit. 2, H315 / Skin Sens. 1, H317</td>
</tr>
</tbody>
</table>

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.
If swallowed by mistake drink plenty of water and seek medical treatment.
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
Foam
Dry fire-extinguishing substance
Carbon dioxide
sand
Water spray jet

5.2. Special hazards arising from the substance or mixture
Risk of formation of toxic pyrolyse products.
Fire gas of organic material has to be classed invariably as respiratory poison.
In the event of fire the following can be released:
Carbon monoxide (CO)
Carbon dioxide (CO2)
Under certain fire conditions traces of other toxic substances cannot be excluded.

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
Ensure adequate ventilation.
Keep people away and stay on the upwind side.
Use personal protective clothing.

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.
After taking up the material dispose according to regulation.

6.4. Reference to other sections
No information available.

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.
Use barrier skin cream.

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
Further information on storage conditions
Store closed container at cool and aired place.
Protect from direct solar radiation.

7.3. Specific end use(s)
No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Ingredients with occupational exposure limits to be monitored

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Name</th>
<th>Code</th>
<th>[mg/m³]</th>
<th>[ppm]</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>98-82-8</td>
<td>Cumene</td>
<td>8 hours</td>
<td>125</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Short-term</td>
<td>250</td>
<td>50</td>
<td>EH40/2005</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>CAS No</th>
<th>Name</th>
<th>Code</th>
<th>[mg/m³]</th>
<th>[ppm]</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>98-82-8</td>
<td>cumene</td>
<td>8 hours</td>
<td>100</td>
<td>20</td>
<td>skin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Short-term</td>
<td>250</td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls
Respiratory protection
Breathing apparatus in the event of high concentrations.
Short term: filter apparatus, filter A

Hand protection
Chemikalienschutzhandschuhe sind in ihrer Ausführung in Abhängigkeit von Gefahrstoffkonzentration und -menge arbeitsplatzspezifisch auszuwählen.
Die einzusetzenden Schutzhandschuhe müssen den Spezifikationen der EG-Richtlinie 89/686/EWG und der sich daraus ergebenden Norm EN374 genügen.
Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitrile rubber; 0.4mm;480min; 60min.

Eye protection
safety goggles

Additional advice on system design
Sufficient ventilation and exhaustion.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Colour</th>
<th>Odour</th>
</tr>
</thead>
<tbody>
<tr>
<td>liquid</td>
<td>green</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

Important health, safety and environmental information

<table>
<thead>
<tr>
<th>Value</th>
<th>Temperature at</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
<td>&gt; 100 °C</td>
<td>DIN/ISO 2592</td>
<td></td>
</tr>
<tr>
<td>Value</td>
<td>Temperature</td>
<td>Method</td>
<td>Remark</td>
</tr>
<tr>
<td>------------------------</td>
<td>-------------</td>
<td>--------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>Autoignition</td>
<td></td>
<td></td>
<td>not applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.1 g/ml</td>
<td>20 °C</td>
<td>DIN 51757</td>
</tr>
<tr>
<td>Solubility in water</td>
<td></td>
<td>20 °C</td>
<td>more or less insoluble</td>
</tr>
<tr>
<td>Viscosity dynamic</td>
<td>450 - 650 mPa*s</td>
<td>25 °C</td>
<td>Brookfield-Visk.</td>
</tr>
</tbody>
</table>

9.2. Other information
No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No information available.

10.2. Chemical stability
No information available.

10.3. Possibility of hazardous reactions
No information available.

10.4. Conditions to avoid
Keep away from heat.

10.5. Incompatible materials
Materials to avoid: Reactions with metals.

10.6. Hazardous decomposition products
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/Irritability/Sensitization

<table>
<thead>
<tr>
<th>Value/Validation</th>
<th>Species</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irritability skin</td>
<td>irritant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Irritability eye</td>
<td>irritant - risk of strong eye injuries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>sensitizing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Experiences made from practice
Sensitization through skin contact possible.

Additional information
The product is to be handled with the caution usual with chemicals.
Other hazardous properties may not be excluded.
The product was classified on the basis of the calculation procedure of the preparation directive (1999/45/EC).
SECTION 12: Ecological information

12.1. Toxicity
No information available.

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
This substance does not meet the PBT/vPvB criteria of 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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

<table>
<thead>
<tr>
<th>Waste code No.</th>
<th>Name of waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 04 09*</td>
<td>waste adhesives and sealants containing organic solvents or other dangerous substances</td>
</tr>
</tbody>
</table>

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

Recommendations for the product
Remove in accordance with local official regulations.
There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany, the Recycling and Waste Management Act 8 KrW-/AbfG) stipulates recycling as a requirement.
This means that a distinction must be made between “wastes for recycling” and “wastes for disposal”. Particular aspects - in the main concerning delivery - are also governed by the Laender.

Recommendations for packaging
Dispose of according to the local waste regulations.

General information
Entsorgung gemäß EG-Richtlinie 91/692/EWG.

SECTION 14: Transport information

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

Special precautions for user
No information available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not applicable

SECTION 15: Regulatory information

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

VOC standard

Remark
Daten separat anfragen / Request data separately.
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
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 22 Harmful if swallowed.
R 23 Toxic by inhalation.
R 34 Causes burns.
R 35 Causes severe burns.
R 36 Irritating to eyes.
R 36/37/38 Irritating to eyes, respiratory system and skin.
R 37 Irritating to respiratory system.
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 65 Harmful: may cause lung damage if swallowed.
R 7 May cause fire.

H226 Flammable liquid and vapour.
H242 Heating may cause a fire.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
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.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful 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).
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.