



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

1.1. Product identifier

Name of product RK 1500 Adhesive
Code-Nr. 105631

1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended intended purpose(s)

2-Component- Structural Adhesive Adhesive Component

1.3. Details of the supplier of the safety data sheet

Distributor

WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster
Postbox 48045, DE-8460 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
E-mail (competent person):
msds@weicon.de

1.4. Emergency telephone number

GIZ Bonn (German, English) Tel: ++49(0)228-19 240
TRANSPORT: Consultank Lutz Harder GmbH Tel: +49(0)178
433 7434 (24h Emergency Contact)

Manufacturer

WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster

1.4. Emergency telephone number

Emergency advice

-
Phone -
GIZ Bonn (Medizinische Auskunft in Deutsch und Englisch)
Tel: ++49(0)228-19 240
TRANSPORT: Consultank Lutz Harder GmbH Tel: +49(0)178
433 7434 (24h Emergency Contact)

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 |
|--------------------------------------|-------------------|--------------------------|
|--------------------------------------|-------------------|--------------------------|

| | |
|---------------|------|
| Flam. Liq. 2 | H225 |
| Skin Corr. 1B | H314 |
| Eye Dam. 1 | H318 |
| Skin Sens. 1 | H317 |

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

| Hazard classes and Hazard categories | Hazard Statements | Classification procedure |
|--------------------------------------|-------------------|--------------------------|
|--------------------------------------|-------------------|--------------------------|

| | | |
|-----------|------|--|
| STOT SE 3 | H335 | |
|-----------|------|--|

Hazard Statements

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H335 | May cause respiratory irritation. |

2.2. Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]


GHS02



GHS05



GHS07

Signal word

Danger

Hazard Statements

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |

Precautionary Statements

| | |
|--------------------|--|
| P102 | Keep out of reach of children. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P243 | Take precautionary measures against static discharge. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| 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. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301 + P330 + P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P303 + P361 + P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| 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. |
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P363 | Wash contaminated clothing before reuse. |
| P370 + P378 | In case of fire: Use extinguishing powder or sand for extinction. |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |



| | |
|-------------|---|
| P403 + P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to hazardous or special waste collection point. |

Hazardous ingredients for labeling

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate, methyl methacrylate

2.3. Other hazards

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation.

Information pertaining to special dangers for human and environment

Causes burns.

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**

Compound basing on methyl methacrylate and methacrylic acid.

Hazardous ingredients

| CAS No | EC No | Name | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] |
|------------|-----------|--|------------|--|
| 80-62-6 | 201-297-1 | methyl methacrylate | 30 - 60 | Flam. Liq. 2, H225 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 |
| 552-30-7 | 209-008-0 | benzene-1,2,4-tricarboxylic acid 1,2-anhydride | < 0,1 | STOT SE 3, H335 / Eye Dam. 1, H318 / Resp. Sens. 1, H334 / Skin Sens. 1, H317 |
| 52628-03-2 | 258-053-2 | 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate | 1 - 3 | Skin Corr. 1B, H314 |
| 79-41-4 | 201-204-4 | methacrylic acid | 7 < 10 | Acute Tox. 4, H302, H332 / Acute Tox. 3, H311 / Skin Corr. 1A, H314 / Eye Dam. 1, H318 / STOT SE 3, H335 |
| 3077-12-1 | 221-359-1 | 2,2'-[(4-Methylphenyl) imino]bisethanol | 1 - 3 | Acute Tox. 4, H302 / Eye Dam. 1, H318 |

REACH

| CAS No | Name | REACH registration number |
|---------|------------------|---------------------------|
| 79-41-4 | methacrylic acid | 01-2119463884-26 |

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.

In case of inhalation

Remove the casualty into fresh air and keep him immobile.

Refer for medical treatment.

In case of skin contact

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

Seek medical treatment immediately.

In case of skin contact, rinse with water for at least 10 minutes.



In case of eye contact

After eye contact, rinse opened eye for 15 minutes under running water. Transfer to hospital for specialist examination.

In case of ingestion

Do not induce vomiting.

Call for a doctor immediately.

Give plenty of water to drink in small sips.

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

Physician's information / possible symptoms

Coughing

Stomache -ache

vomiting

Respiratory complaints

Allergic symptoms

Skin burns

skin irritation

Physician's information / possible dangers

allergic reactions

Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment (Advice to doctor)

Keep under medical supervision for at least 48 hours.

Symptoms may not occur until several hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam

Dry powder

Carbon dioxide

Dry sand

Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Danger of bursting

In case of fire formation of dangerous gases possible.

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Phosphorus oxides (e.g. phosphoruspentoxide)

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

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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.

Keep away sources of ignition.

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

6.2. Environmental precautions

Inform pollution control authorities if product gets into the sewerage systems or open waters.

Do not discharge into the drains or bodies of water..

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).

Disposal according to regulations.

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**

Keep container tightly closed.

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Open and handle container with care!

General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

Hygiene measures

At work do not eat, drink, smoke or take drugs.

Remove soiled or soaked clothing immediately.

Wash hands and skin before breaks and after work.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

Protect from heat and sunlight.

Take precautionary measures against static discharges.

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 in closed 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

Keep container tightly closed and store at cool and aired place.

Store and transport at 2°C to 8°C (=36°F to 46°F).

Protect from direct solar radiation.



Protect from heat/overheating.

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 |
|----------|-----------------------|------------|---------|-------|-----------|
| 79-41-4 | Methacrylic acid | 8 hours | 72 | 20 | EH40/2005 |
| | | Short-term | 143 | 40 | |
| 80-62-6 | Methyl methacrylate | 8 hours | 208 | 50 | EH40/2005 |
| | | Short-term | 416 | 100 | |
| 552-30-7 | Trimellitic anhydride | 8 hours | 0.04 | | EH40/2005 |
| | | Short-term | 0.12 | | |

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 |
|---------|---------------------|------------|---------|-------|--------|
| 80-62-6 | methyl-methacrylate | 8 hours | | 50 | |
| | | Short-term | | 100 | |

Additional advice

The statutory local and national regulations have to be observed.

8.2. Exposure controls

Respiratory protection

If ventilation insufficient, wear respiratory protection.

Filter A or environment-independent breathing apparatus

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]: butyl rubber, 0,7mm; 480min

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

viscous

Colour

pink

Odour

ester-like

Odour threshold

**RK 1500 Adhesive**

not determined

Important health, safety and environmental information

| | Value | Temperature | at | Method | Remark |
|--|-------------------------|-------------|----|------------|-------------------|
| pH value | not determined | | | | |
| boiling point | > 100 °C | | | | |
| melting point | not determined | | | | |
| Flash point | > 10 °C | | | closed cup | |
| Vapourisation rate | not determined | | | | |
| Flammable (solid) | not determined | | | | |
| Flammability (gas) | not determined | | | | |
| Ignition temperature | 430 °C | | | | |
| Self ignition temperature | 430 °C | | | | |
| Lower explosion limit | 2,1 Vol-% | | | | |
| Upper explosion limit | 12,5 Vol-% | | | | |
| Vapour pressure | < 3800 Pa | 20 °C | | | |
| Relative density | ca. 1 g/cm ³ | 20 °C | | | |
| Vapour density | 1 | | | | |
| Solubility in water | < 16 g/l | | | | partially soluble |
| Solubility/other | not determined | | | | |
| Partition coefficient n-octanol/water (log P O/W) | not determined | | | | |
| Decomposition temperature | > 200 °C | | | | |
| Viscosity dynamic | 3000 - 5000 mPa*s | 23 °C | | | |
| Viscosity kinematic | not determined | | | | |

Oxidising properties

No information available.

Explosive properties

No information available.

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

Reactions with oxidising agents.

Reactions with reducing agents, heavy metals.

10.4. Conditions to avoid

Heat.

Light effect.

10.5. Incompatible materials**Substances to avoid**

Heavy metal chemical salts

Oxidising agent, strong

Reducing agent

10.6. Hazardous decomposition products

Gases/vapours, toxic

Carbon dioxide (CO₂)Phosphorus oxides (e.g. P₂O₅)Nitrous oxides (NO_x)**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 | | | ATE |
| LD50 acute dermal | > 5000 mg/kg | | | ATE |
| LC50 acute inhalation | 126,5 mg/l () | | | ATE |
| Skin irritation | corrosive | | | |
| Eye irritation | corrosive | | | |
| Skin sensitization | sensitizing | | | |

Subacute Toxicity - Carcinogenicity

| | Value | Species | Method | Validation |
|--|-------|---------|--------|------------|
|--|-------|---------|--------|------------|



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

Printed 08.01.2016

revision 05.01.2016 (GB) Version 8.5

RK 1500 Adhesive

| 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.

Allergic reactions possible (analogy-reasons).

Causes corrosions.

Risk of strong eye injuries.

Irritates respiratory tract.

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 |
|----------------|------------------------|-------------|----------|--------------|
| Fish | LC50 > 79 mg/l (96 h) | trout | | |
| Daphnia | EC50 49 mg/l (21 h) | Daphnia sp. | OECD 202 | |
| Algae | IC50 > 110 mg/l (72 h) | Green algae | | CAS: 80-62-6 |

12.2. Persistence and degradability

| | Elimination rate | Method of analysis | Method | Validation |
|---------------------------------|---|--------------------|--------|------------|
| Biological degradability | < 94 % (14 d) The product is readily biodegradable to OECD criteria. | | | |

12.3. Bioaccumulative potential

The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

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 aquatic environment.

**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

Uncontaminated packaging may be taken for recycling.

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 | 2924 | 2924 | 2924 |
| 14.2. UN proper shipping name | FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methylmethacrylat, Methacrylsäure) | FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methylmethacrylate, Methacrylic acid) | Flammable liquid, corrosive, n.o.s. (Methylmethacrylate, Methacrylic acid) |
| 14.3. Transport hazard class(es) | 3 (8) | 3 (8) | 3 (8) |
| 14.4. Packing group | II | II | II |
| 14.5. Environmental hazards | No | No | No |

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

Land and inland navigation transport ADR/RID

Hazard label(s) 3+8

tunnel restriction code D/E

Classification code FC

! 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.

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

| | |
|-------------|--|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H302, | -?- |
| H332 | Toxic 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. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |