

**! 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
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
Fax +49(0)251 / 9322 - 244
E-mail (competent person):
msds@weicon.de

1.4. Emergency telephone number

EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel:
++44 1865 407333 (English)
TRANSPORT EMERGENCY CONTACT - UK, UAE, South
Africa (24h): Tel: ++44 1865 407333 (English)

Manufacturer

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

1.4. Emergency telephone number

GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h):
Tel: ++49 69 222 25285 (Deutsch, Englisch)

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

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.
 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-XXXX

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
Skin burns

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

Do not inhale vapours.

Avoid contact with eyes and skin

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		
80-62-6	Metacrilato de metilo	8 hours	208	50	
		Short-term	416	100	

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	

DNEL-/PNEC-values**DNEL worker**

CAS No	Substance name	Value	Code	Remark
79-41-4	methacrylic acid	88 mg/m3	DNEL long-term inhalative (local)	
		29,6 mg/m3	DNEL long-term inhalative (systemic)	
		4,25 mg/kg bw/day	DNEL long-term dermal (systemic)	

PNEC

CAS No	Substance name	Value	Code	Remark
79-41-4	methacrylic acid	0,82 mg/l	PNEC aquatic, marine water	
		0,82 mg/l	PNEC aquatic, freshwater	

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

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

The product is chemically stable under recommended conditions of storage, use and temperature.

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			ATE
LD50 acute dermal	> 5000			ATE
LC50 acute inhalation	> 100 ()			ATE
Skin irritation	corrosive			



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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RK 1500 Adhesive

	Value/Validation	Species	Method	Remark
Eye irritation	corrosive			
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.

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.

The product has not been tested. The information is derived from the properties of the individual components.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 > 79 mg/l (96 h)	trout		Toxicology test with the product.
Daphnia	EC50 49 mg/l (21 h)	Daphnia sp.	OECD 202	Toxicology test with the product.
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.

The ecotoxic effect of the product has not been tested. The information on this is given on the basis of details in the literature.

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.

Dispose of as hazardous waste.

Recommendations for packaging

Untaminated 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: 8.6

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.