

**! SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Name of product** RK 1300 Adhesive  
Code-Nr. 105601

**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 Irrit. 2	H315	
Eye Dam. 1	H318	
Skin Sens. 1	H317	
STOT SE 3	H335	

**Hazard Statements**

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
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.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 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.  
 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.  
 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.  
 P332 + P313 If skin irritation occurs: Get medical advice/attention.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P362 Take off contaminated clothing.  
 P363 Wash contaminated clothing before reuse.  
 P370 + P378 In case of fire: Use foam 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

2,2'-[(4-Methylphenyl) imino]bisethanol

2,2'-[(4-Methylphenyl) imino]bisethanol, methyl methacrylate

### 2.3. Other hazards

When grinding/processing the cured material, a dust containing quartz can be produced.



### 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

Preparation based on methyl methacrylate, methacrylic acid and 2,2'-[(4-phenylmethyl)imino]bisethanol

#### 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
79-41-4	201-204-4	methacrylic acid	3 - 7	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.

In case of inhalation of fumes symptoms of poisoning may occur after hours, medical treatment is necessary.

Seek medical treatment immediately.

#### 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 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.

Rinse out mouth thoroughly with water.

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

Shortness of breath

Allergic symptoms

Skin burns

Gastrointestinal complaints

skin irritation



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**Physician's information / possible dangers**

Risk of allergic-anaphylactic shock  
Risk of respiratory disorders  
allergic reactions  
Causes serious eye damage.

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

**Treatment (Advice to doctor)**

If swallowed or in the event of vomiting, risk of entering the lungs.  
Keep under medical supervision for at least 48 hours.  
Symptoms may not occur until several hours.

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Foam  
Dry powder  
Carbon dioxide  
Dry sand  
water mist

**Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

Metal oxides  
Danger of bursting  
In case of fire formation of dangerous gases possible.  
Nitrogen oxides (NOx)  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)

**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.  
Collect contaminated firefighting water separately, must not be discharged into the drains.

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**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/surface waters/groundwater.  
Do not discharge into the subsoil/soil.



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### 6.3. Methods and material for containment and cleaning up

Dilute with plenty of water.

Take up residues with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

After taking up the material dispose according to regulation.

Take up mechanically.

#### Additional Information

Sort out leaky cans and dispose according to regulations.

### 6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

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## 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.

#### 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

Take precautionary measures against static discharges.

Avoid effect of heat.

Use explosion-proof equipment / fittings and non-sparking tools.

### 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 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.

Protect from direct solar radiation.

Storage temperature between 2°C to 8°C

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
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	
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.

Breathing apparatus in the event of aerosol or mist formation.

Multi-purpose filter ABEK/P3, otherwise 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**

liquid

**Colour**

pink

**Odour**

ester-like

**Odour threshold**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	not determined				
<b>boiling point</b>	> 100 °C				
<b>melting point</b>	not determined				
<b>Flash point</b>	17 °C			closed cup	
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	> 200 °C				estimate
<b>Self ignition temperature</b>	430 °C				
<b>Lower explosion limit</b>	2,1 Vol-%				
<b>Upper explosion limit</b>	12,5 Vol-%				
<b>Vapour pressure</b>	< 3800 Pa	20 °C			
<b>Relative density</b>	ca. 1 g/cm <sup>3</sup>	20 °C			
<b>Vapour density</b>	1	20 °C			
<b>Solubility in water</b>	< 16 g/l				partially soluble
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	> 200 °C				
<b>Viscosity dynamic</b>	18000-26000 mPa*s	23 °C			
<b>Viscosity kinematic</b>	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 strong oxidising agents.

Reactions with reducing agents, heavy metals.

**10.4. Conditions to avoid**

Keep away from heat.

**10.5. Incompatible materials****Substances to avoid**

Heavy metal chemical salts

Oxidising agent, strong

Reducing agent

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide.

Nitrous oxides (NO<sub>x</sub>)

Toxic gases/vapours

Metaloxides

**Thermal decomposition**

Remark No decomposition below 200°C.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity/Irritation/Sensitization**

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	> 5000			ATE
<b>LD50 acute dermal</b>	ca. 4763			ATE
<b>LC50 acute inhalation</b>	> 100 ()			ATE
<b>Skin irritation</b>	irritant			
<b>Eye irritation</b>	risk of strong eye injuries			
<b>Skin sensitization</b>	sensitizing			



**Subacute Toxicity - Carcinogenicity**

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

**Experiences made from practice**

Risk of strong health injuries in case of long-term exposition.

Sensitization through skin contact possible.

Risk of strong eye injuries.

Irritates respiratory tract.

Irritates eyes and skin.

**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
<b>Fish</b> LC50 > 79 mg/l (96 h)	Fish		Toxicology test with the product.
<b>Daphnia</b> EC50 > 69 mg/l (48 h)	Daphnia magna		Toxicology test with the product.
<b>Algae</b> IC50 45 mg/l (72 h)	Green algae		CAS: 79-41-4

**12.2. Persistence and degradability**

Elimination rate	Method of analysis	Method	Validation
<b>Biological degradability</b> < 94 % (14 d)			readily degradable
Toxicology test with the product.			

**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**

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**

	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA-DGR</b>
<b>14.1. UN number</b>	2924	2924	2924
<b>14.2. UN proper shipping name</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methylmethacrylate, Methacrylic acid)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methylmethacrylate, Methacrylic acid)	Flammable liquid, corrosive, n.o.s. (Methylmethacrylate, Methacrylic acid)
<b>14.3. Transport hazard class(es)</b>	3 (8)	3 (8)	3 (8)
<b>14.4. Packing group</b>	II	II	II
<b>14.5. Environmental hazards</b>	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

Special provisions 274

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 %

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**15.2. Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

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**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,	-?-
<del>H332</del>	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.
H335	May cause respiratory irritation.