

Weicon GmbH

Revision date: 30.12.2009

Revision no.:

1,00

RK 1500 Adhesive

7619-0112

## **1. Product and Company Identification**

### **Commercial product name**

RK 1500 Adhesive

### **Further trade names**

10563

### **Chemical characterization ( Mixture )**

Preparation based on methyl methacrylate and methacrylic acid.

### **Company/undertaking identification**

#### **Manufacturer**

Weicon GmbH

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## **2. Hazards Identification**

### **Route(s) of Entry**

Skin and eye contact, inhalation and ingestion.

### **Signs and Symptoms of Exposure**

DANGER!

Highly flammable

Causes burns.

May cause sensitization by skin contact.

OSHA Hazard Communication: This material is considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.

Carcinogenicity (NTP): Not listed

Carcinogenicity (IARC): Not listed

Carcinogenicity (OSHA): Not listed

## **3. Composition/Information on Ingredients**

### **Hazardous components**

CAS No.	Components	Quantity
80-62-6	methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate, methyl methacrylate	30 - 60 %
79-41-4	2-methylpropenoic acid, methacrylic acid	7 - 9,9 %
3077-12-1	2,2'-[(4-methylphenyl)imino]bisethanol	1 - 5 %
52628-03-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	0,5 - 1,5 %

## **4. First Aid Measures**

### **General information**

Remove contaminated soaked clothing immediately.

In the event of persistent symptoms receive medical treatment.

### **After inhalation**

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

In the event of symptoms refer for medical treatment.

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**After contact with skin**

Wash off immediately with soap and plenty of water.

Consult a doctor if skin irritation persists.

**After contact with eyes**

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Seek medical treatment by eye specialist.

**After ingestion**

Do not induce vomiting.

If swallowed give water to drink.

Never give anything by mouth to an unconscious person.

Summon a doctor immediately.

**Advice to physician**

In the event of pulmonary irritation treat initially with dexamethasone metered-dose aerosol.

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**5. Fire Fighting Measures**

**Suitable extinguishing media**

Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water-spray.

**Unsuitable extinguishing media**

Full water jet

**Special hazards arising from the chemical**

Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).

Risk of formation of toxic pyrolysis products.

Dense black smoke.

**Protective equipment and precautions for firefighters**

Use breathing apparatus with independent air supply.

Protective suit

**Additional information**

The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

Cool containers at risk with water spray jet.

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

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**6. Accidental Release Measures**

**Personal precautions**

In case of vapour formation use respirator.

Ensure adequate ventilation.

Use personal protective clothing.

**Environmental precautions**

Clean contaminated surface thoroughly.

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

**Methods for cleaning up/taking up**

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

Shovel into suitable container for disposal.

**Additional information**

Information for personal protective equipment look up chapter 8.

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**7. Handling and Storage**

**Handling**

**Advice on safe handling**

Keep container tightly closed.

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Use only in thoroughly ventilated areas.

Avoid contact with skin, eyes and clothing.

**Advice on protection against fire and explosion**

Do not smoke - volatile.

Keep away from open flames, hot surfaces and sources of ignition.

The product is easy combustible.

Take precautionary measures against static discharges.

**Further information on handling**

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

Corrodes steel.

**Storage****Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.

Pay attention to anti-explosion rules.

Protect against direct sun radiation.

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

Protect from heat/overheating.

**Advice on storage compatibility**

Incompatible with:

Oxidizing agents, Acids and bases.

**Further information on storage conditions**

Limited shelf life depending on the storage temperature (expiry date on every container).

**8. Exposure Controls/Personal Protection****Exposure limit values****Exposure limits**

CAS No.	Components	ppm	mg/m <sup>3</sup>	fib/cc	Category	Origin
79-41-4	Methacrylic acid	20	70		TWA (8 h)	REL
		20	70		TWA (8 h)	TLV
		-	-		STEL (15 min)	TLV
		-	-		Peak	TLV
80-62-6	Methyl methacrylate	100	410		TWA (8 h)	PEL
		100	410		TWA (8 h)	REL
		50	205		TWA (8 h)	TLV
		100	410		STEL (15 min)	TLV
		-	-		Peak	TLV

**Occupational exposure controls**

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Do not inhale vapours.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothes before re-use.

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

**Hand protection**

Chemical protective gloves made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes.

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This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Pls. find examples in the GISBAU protective gloves database under:

<http://www.wingisonline.de/handschuhe/frmMain.aspx>

**Eye protection**

Eye wash bottle with pure water.

Tightly fitting goggles

**Skin protection**

Light protective clothing

Rubber apron

**9. Physical and Chemical Properties****Appearance**

Form: Viscous liquid

Color: Pink

Odor: Ester-like

**Important health, safety and environmental information**

Test method

**Changes in the physical state**

Boiling point: > 100 °C

Flash point: >10 °C

Lower explosion limits: 2,1 vol. %

Upper explosion limits: 12,5 vol. %

Vapour pressure: 38 hPa  
(at 20 °C)

Density (at 20 °C): approx. 1 g/cm<sup>3</sup>

Water solubility: <16 g/l, Partially soluble g/L  
(at 20 °C)

Viscosity / dynamic: 3000-5000 mPa·s  
(at 23 °C)

**Other information**

Ignition temperature: 430 °C

**10. Stability and Reactivity****Stability**

Stable

**Conditions to avoid**

To avoid thermal decomposition, do not overheat.

Reactions with oxidizing agents.

Reactions with reducing agents, heavy metals.

**Materials to avoid**

Product polymerizes in contact with radical generating substances such as peroxides, azo compounds and heavy metal compounds. Risk of bursting. Exothermic reaction.

**Hazardous decomposition products**

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>)

Toxic gases/vapours

Risk of formation of toxic pyrolysis products.

**Possibility of Hazardous Reactions**

Will not occur

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**Additional information**

No decomposition below 200°C.

**11. Toxicological Information****Acute toxicity**

LD50/oral : &gt;2000 mg/kg Rat

LD50/dermal : &gt; 5000 mg/kg Rabbit

LC50/inhalation : 20 mg/kg Rat

**Corrosive and irritant effects**

Skin irritation : Corrosive Rabbit

Eye irritation : Corrosive Rabbit eye

Long-term skin contact with vapours may cause skin irritation or sensitization.

**Sensitizing effects**

Skin sensitization, remark : Sensitizing Guinea pig

**Empirical data on effects on humans**

The product causes burns of eyes, skin and mucous membranes.

Harmful by inhalation and if swallowed.

Sensitization through skin contact possible.

**12. Ecological Information****Ecotoxicity**Fish LC50 : 79 g/m<sup>3</sup> (96 h) Rainbow trout OECD 203Daphnia EC50 : 69 g/m<sup>3</sup> (48 h) Daphnia magna OECD 202Algae EC50 : 0.59 g/m<sup>3</sup> (96 h) Selenastrum capricornutumToxicity to bacteria: EC0 : 100 g/m<sup>3</sup> Pseudomonas putida**Persistence and degradability**

Readily degradable : &lt;94% (14d) OECD 301 C

**Further information**

Do not discharge product unmonitored into the environment.

Product is not allowed to discharge into aquatic environment, drains or sewage treatment plants.

**13. Disposal Considerations****Advice on disposal**

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

**Contaminated packaging**

Contaminated packagings are to be treated like the product itself.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

**14. Transport Information****US DOT 49 CFR 172.101****Proper shipping name**

Flammable liquid, corrosive, n.o.s. (Methyl methacrylate, Methacrylic acid )

ID Number: UN2924

Hazard Class or Division: 3+8

Packing group: II

Label: 3+8

**Land transport (ADR/RID)**

UN number: 2924

ADR/RID class: 3

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Classification Code: FC  
 Warning plate  
 Hazard-no.: 338  
 Hazard label: 3 + 8



ADR/RID packing group: II  
 Limited quantity: LQ 4

**Description of the goods**

Flammable liquid, corrosive, n.o.s. (Methyl methacrylate, Methacrylic acid )

**Other applicable information**

LQ 4: combination packaging: 3 I / 30 kg (total gross mass); trays: 1 I / 20 kg (total gross mass).

Tunnel restriction code: D/E

Transport category: 2

**Marine transport**

UN number: 2924  
 IMDG code: 3  
 Marine pollutant: No  
 Hazard label: 3 + 8



IMDG packing group: II  
 EmS: F-E; S-C  
 Limited quantity: 1 L / 30 kg

**Description of the goods**

Flammable liquid, corrosive, n.o.s. (Methyl methacrylate, Methacrylic acid )

**Other applicable information**

Limited quantities (chapter 3.4): combination packaging: 1 I / 30 kg (total gross mass); trays: 1 I / 20 kg (total gross mass)

**Air transport**

UN/ID number: 2924  
 ICAO/IATA-DGR: 3  
 Hazard label: 3 + 8



ICAO packing group: II  
 Limited quantity Passenger: Y305 / 0,5 L  
 IATA-packing instructions - Passenger: 305  
 IATA-max. quantity - Passenger: 1 L  
 IATA-packing instructions - Cargo: 307  
 IATA-max. quantity - Cargo: 5 L

**Description of the goods**

Flammable liquid, corrosive, n.o.s. (Methyl methacrylate, Methacrylic acid )

**15. Regulatory Information****U.S. Regulations**

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**National Inventory TSCA**

All of the components are on the TSCA Inventory.

**SARA**

This product contains toxic chemical(s) subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372. Any such toxic chemical(s) are shown below.

Methyl methacrylate, CAS No. 80-62--6 (max. 40%)

**State Regulations**

This product contains max VOC: 0%

**Additional information**

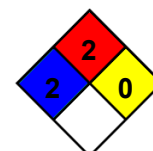
GISCODE according to industry-specific regulation acid-proof construction of May 11th, 2006

**16. Other Information****Hazardous Materials Information Label (HMIS)**

Health:	*2
Flammability:	2
Physical Hazard:	0

**NFPA Hazard Ratings**

Health:	2
Flammability:	2
Reactivity:	0
Unique Hazard:	

**Other data**

Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the product (in this sense consult package leaflet and expert information), but to release of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*