

Weicon GmbH

Revision date: 30.12.2009

Revision no.:

1,00

RK 1500 Adhesive

7619-0112

1. Identification of the substance/preparation and of the company/undertaking**Identification of the substance or preparation**

RK 1500 Adhesive

Further trade names

10563

Use of the substance/preparation

2-Component structural adhesive.

Company/undertaking identification**Manufacturer**

Weicon GmbH

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2. Hazards identification**Classification**

Indications of danger : Highly flammable, Corrosive

R-phrases:

Highly flammable.

Harmful by inhalation and if swallowed.

Causes burns.

May cause sensitization by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients**Chemical characterization (Mixture)**

Preparation based on methyl methacrylate and methacrylic acid.

Hazardous components

CAS-No.	Chemical name	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.

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 doctor

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

5. Fire-fighting measures

Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water-spray.

Extinguishing media which must not be used for safety reasons

Full water jet

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Fire may produce:
Carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x).
Risk of formation of toxic pyrolyse products.
Dense black smoke

Special protective equipment for fire-fighters

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.

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.

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Additional information

Informations for personal protective equipment look up chapter 8.

7. Handling and storage**Handling****Advice on safe handling**

Keep container tightly closed.

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.

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).

Storageclass (VCI): 3 A

8. Exposure controls/personal protection**Exposure limit values****Exposure limits (ACGIH)**

CAS No.	Substance	ppm	mg/m ³	F/ml	Category	Origin
79-41-4	Methacrylic acid	20	70		TWA (8 h)	TLV
		-	-		STEL (15 min)	TLV
		-	-		Peak	TLV
80-62-6	Methyl methacrylate	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.

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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.

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**General information**

Physical state:	Viscous liquid
Colour:	Pink
Odour:	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: (at 20 °C)	38 hPa
Density (at 20 °C):	approx. 1 g/cm ³
Water solubility: (at 20 °C)	<16 g/l, Partially soluble g/L
Viscosity / dynamic: (at 23 °C)	3000-5000 mPa·s

Other information

Ignition temperature:	430 °C
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10. Stability and reactivity**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 (CO₂) and nitrogen oxides (NO_x)

Toxic gases/vapours

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Risk of formation of toxic pyrolysis products.

Additional information

No decomposition below 200°C.

11. Toxicological information**Acute toxicity**

LD50/oral : >2000 mg/kg Rat

LD50/dermal : > 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/m³ (96 h) Rainbow trout OECD 203Daphnia EC50 : 69 g/m³ (48 h) Daphnia magna OECD 202Algae EC50 : 0.59 g/m³ (96 h) Selenastrum capricornutumToxicity to bacteria: EC0 : 100 g/m³ Pseudomonas putida**Persistence and degradability**

Readily degradable : <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**Canadian TDG****Proper shipping name**

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

UN/ID number: UN2924

Hazard classes: 3+8

Packing group: II

Hazard label: 3+8

Land transport (ADR/RID)

UN number: 2924

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ADR/RID class: 3
 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. (Methylmethacrylate, Methacrylic acid)

Other applicable information (land transport)

LQ 4: combination packaging: 3 l / 30 kg (total gross mass); trays: 1 l / 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. (Methylmethacrylate, Methacrylic acid)

Other applicable information (marine transport)

Limited quantities (chapter 3.4): combination packaging: 1 l / 30 kg (total gross mass); trays: 1 l / 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. (Methylmethacrylate, Methacrylic acid)

15. Regulatory information**Canadian regulations**



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DSL/NDSL inventory status

All of the components are listed on the DSL Inventory.

WHMIS classification

WHMIS: B2, E

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

Additional information

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

16. Other information

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.)