

Weicon GmbH

Revision date: 02.01.2010

Revision no.:

1,00

RK-7000 Adhesive

7619-0114

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

RK-7000 Adhesive

**Further trade names**

10565-1

**Use of the substance/preparation**

2-Component structural adhesive.

**Company/undertaking identification****Manufacturer**

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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	70 - 90 %
79-41-4	2-methylpropenoic acid, methacrylic acid	<5 %
80-15-9	cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide	<5 %
98-59-9	Toluenesulfonyl chloride	<5 %

**4. First aid measures**

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**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.

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**5. Fire-fighting measures**

**Suitable extinguishing media**

Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), 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 (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).  
Risk of formation of toxic pyrolyse products.

**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.

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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.

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Revision date: 02.01.2010

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RK-7000 Adhesive

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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 only at temperature of 40°C minimum (=104°F).

**Advice on storage compatibility**

Incompatible with:

Oxidizing agents, Acids and bases.

Storageclass (VCI):

3 A

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

CAS No.	Substance	ppm	mg/m <sup>3</sup>	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

**Additional advice on limit values**p-Toluenesulfonyl chloride (98-59-9): 5mg/m<sup>3</sup> (AIHA WEELs)**Occupational exposure controls**

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Do not inhale gases/vapours/aerosols.

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).

Weicon GmbH

Revision date: 02.01.2010

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**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**

Long sleeved clothing.

**9. Physical and chemical properties****General information**

Physical state:	Liquid
Colour:	Various, depending on coloration
Odour:	Pungent

**Important health, safety and environmental information**

Test method

**Changes in the physical state**

Boiling point:	< 100 °C
Flash point:	10,1 °C
Lower explosion limits:	2,1 vol. %
Upper explosion limits:	12,5 vol. %
Vapour pressure: (at 20 °C)	386 hPa
Density (at 20 °C):	0,94-1 g/cm <sup>3</sup>
Water solubility: (at 20 °C)	Insoluble

**10. Stability and reactivity****Conditions to avoid**

To avoid thermal decomposition, do not overheat.

**Materials to avoid**

Reactions with strong oxidizing agents.

**Hazardous decomposition products**

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

Toxic gases/vapours

**Additional information**

No decomposition if stored and applied as directed.

**11. Toxicological information****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

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**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****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**

Remove in accordance with local official regulations.

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

If recycling is not practicable, dispose of in compliance with local regulations.

**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

ADR/RID class: 3

Classification Code: FC

Warning plate

Hazard-no.: 33

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 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

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7619-0114

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****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)"

**Safety Data Sheet according to WHMIS**



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