

Weicon GmbH

Revision date: 02.01.2010

Revision no.:

1,00

RK-7000 Adhesive

7619-0114

1. Product and Company Identification

Commercial product name

RK-7000 Adhesive

Further trade names

10565-1

Chemical characterization (Mixture)

Preparation based on methyl methacrylate and methacrylic acid.

Company/undertaking identification

Manufacturer

Weicon GmbH

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Responsible for the safety data sheet: sds@gbk-ingelheim.de

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 | 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

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.

5. Fire Fighting Measures

Suitable extinguishing media

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

Unsuitable extinguishing media

Full water jet

Special hazards arising from the chemical

Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x).

Risk of formation of toxic pyrolysis products.

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.

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.

7. Handling and Storage

Handling

Advice on safe handling

Keep container tightly closed.

Use only in thoroughly ventilated areas.

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

Advice on storage compatibility

Incompatible with:

Oxidizing agents, Acids and bases.

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

| CAS No. | Components | ppm | mg/m ³ | 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 |

Additional advice on limit values

p-Toluenesulfonyl chloride (98-59-9): 5mg/m³ (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).

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.

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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**Appearance**

| | |
|--------|----------------------------------|
| Form: | Liquid |
| Color: | Various, depending on coloration |
| Odor: | 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 ³ |
| Water solubility: (at 20 °C) | Insoluble |

10. Stability and Reactivity**Stability**

Stable

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 (CO₂) and nitrogen oxides (NO_x)

Toxic gases/vapours

Possibility of Hazardous Reactions

Will not occur

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

Empirical data on effects on humans

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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

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

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. (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

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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 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. (Methyl methacrylate, Methacrylic acid)

15. Regulatory Information**U.S. Regulations****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. 90%)

Cumene hydroperoxide, CAS No. 80-15-9 (max. 10%)

State Regulations

This product contains max VOC: 1.98% (1.92 g/L)

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

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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.)