



# SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: Mar/30/2016  
Version: 1  
Language: en-US  
Date of print: Apr/18/2016

## RK-7000 Adhesive

Article number 105651

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## 1. Product and company identification

### Product identifier

Trade name: RK-7000 Adhesive

### Relevant identified uses of the substance or mixture and uses advised against

General use: Acrylic resin (Resin)

### Details of the supplier of the safety data sheet

Company name: WEICON Inc.  
Street/POB-No.: 20 Steckle Place, Unit 20  
Postal Code, city: Kitchener, Ontario N2E 2C3, CA  
WWW: www.weicon.ca  
E-mail: info@weicon.ca  
Telephone: +1-519-896-5252  
Telefax: +1-519-896-5254

Dept. responsible for information:

Product-Safety-Department  
Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

Additional information:

WEICON GmbH & Co. KG  
Königsberger Straße 255  
Münster 48157  
www.weicon.de  
info@weicon.de  
+49(0)251 / 9322 - 0  
+49(0)251 / 9322 - 244

### Emergency phone number

**GIZ, Bonn Germany ( English )**

**Telephone: +49(0)228 / 19 240**

**Transport:**

**Consultank Lutz Harder GmbH**

**Telephone: +49 (0)178 433 7434 (24h Emergency Contact)**

## 2. Hazards identification

### Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid

Color: off-white

Odor: characteristic strong odor

Classification: Flammable Liquid - Category 2; Skin Irritation - Category 2; Eye Damage - Category 1; Sensitization - skin - Category 1; Specific Target Organ Toxicity (Single Exposure) - Category 3; Aquatic toxicity - chronic - Category 3;

Hazard symbols:



Signal word:

**Danger**



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- Hazard statements:** Highly flammable liquid and vapor.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause respiratory irritation.  
Harmful to aquatic life with long lasting effects.
- Precautionary statements:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash hands and face thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN: Wash with plenty of water/soap.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor.  
Specific treatment (see ' First aid ' on this label).  
If skin irritation or rash occurs: Get medical advice/attention.  
Take off contaminated clothing.  
In case of fire: Use dry powder, foam or water spray for extinction.  
Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container to hazardous or special waste collection point.

### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

### Hazards not otherwise classified

Potentially explosive mixtures may form if adequate ventilation is not provided.  
Inhaling can lead to irritations of the respiratory tract and mucous membrane.  
Higher doses may have a narcotic effect.  
see section 11: Toxicological information



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### 3. Composition / Information on ingredients

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 80-62-6	Methyl methacrylate	50 - 75 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Sensitization - skin - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 79-41-4	Methacrylic acid	< 5 %	Acute Toxicity - oral - Category 4. Acute Toxicity - dermal - Category 4. Skin Corrosion - Category 1A.
CAS 110-16-7	Maleic acid	< 3 %	Acute Toxicity - oral - Category 4. Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 8050-09-7	Colophony	< 3 %	Sensitization - skin - Category 1.
CAS 128-37-0	2,6-di-tert-Butyl-p-cresol	< 1 %	Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.

### 4. First aid measures

General information:	Change contaminated clothing. First aider: Pay attention to self-protection!
In case of inhalation:	Provide fresh air. Seek medical treatment in case of troubles.
Following skin contact:	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently seek the immediate attention of an ophthalmologist.
After swallowing:	Do not induce vomiting. Rinse mouth with water. Drink large quantities of water. Never give anything by mouth to an unconscious person. Seek medical attention.

#### Most important symptoms/effects, acute and delayed

Respiratory complaints, nausea, drowsiness, headache.  
Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction.

#### Information to physician

Treat symptomatically.

### 5. Fire fighting measures

Flash point/flash point range:

-0.4 - 73.4 °F (c.c.)

Auto-ignition temperature: No data available

Suitable extinguishing media:

Foam, Extinguishing powder, carbon dioxide, water mist

Extinguishing media which must not be used for safety reasons:

High power water jet



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### Specific hazards arising from the chemical

Highly flammable liquid and vapor. Vapors form explosive mixtures with air. Risk of bursting/explosion.

Hazardous vapors may form during fires. In case of fire may be liberated: carbon monoxide and carbon dioxide

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing. In case of fire and/or explosion do not breathe fumes.

Additional information:

Cool exposed containers with water spray. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## 6. Accidental release measures

Personal precautions:

Provide adequate ventilation. Eliminate all ignition sources if safe to do so. Avoid contact with skin and eyes.

Wear appropriate protective equipment. Keep unprotected people away.

Use a breathing protection against vapors/aerosol. Do not breathe vapors.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. Do not allow to enter into soil/subsoil. In case of release, notify competent authorities.

Methods for clean-up:

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

Beware of reignition. Use only explosion-proof equipment. Thoroughly clean surrounding area.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

## 7. Handling and storage

### Handling

Advices on safe handling:

Provide for good room ventilation, suctioning/venting. Do not breathe vapors.

Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

Wear appropriate protective equipment. Take off immediately all contaminated clothing.

Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash hands before breaks and after work.

Precautions against fire and explosion:

Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.

Use only explosion-protected equipment/instruments. Do not weld.

In partially filled containers explosive mixtures may form.

### Storage

Requirements for storerooms and containers:

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

Keep container dry. Keep only in the original container.

Protect from heat and direct sunlight.

Store containers in upright position. Explosion protection required.

Handle empty containers with care. Incineration may cause explosion.



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Hints on joint storage: Do not store together with combustible or self-igniting materials or any highly flammable solids. (acids, alkalis, Oxidising agent)  
Keep away from food, drink and animal feedingstuffs.

## 8. Exposure controls / personal protection

### Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
80-62-6	Methyl methacrylate	USA: ACGIH: STEL USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA	410 mg/m <sup>3</sup> ; 100 ppm 205 mg/m <sup>3</sup> ; 50 ppm 410 mg/m <sup>3</sup> ; 100 ppm 410 mg/m <sup>3</sup> ; 100 ppm
79-41-4	Methacrylic acid	USA: ACGIH: TWA USA: NIOSH: TWA	70 mg/m <sup>3</sup> ; 20 ppm 70 mg/m <sup>3</sup> ; 20 ppm (May be absorbed through the skin.)
128-37-0	2,6-di-tert-Butyl-p-cresol	USA: ACGIH: TWA USA: NIOSH: TWA	2 mg/m <sup>3</sup> inhalable fraction and vapor 10 mg/m <sup>3</sup>

### Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.  
See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Flame retardant, antistatic and chemical resistant protective clothing.  
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.  
Glove material: Neoprene  
Breakthrough time: > 480 min  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.  
The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.

General hygiene considerations:  
Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.  
Do not breathe vapor or spray. Avoid contact with skin and eyes.  
Work place should be equipped with a shower and an eye rinsing apparatus. Take off immediately all contaminated clothing.  
When using do not eat, drink or smoke. Wash hands before breaks and after work.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance: Physical state at 68 °F and 101.3 kPa: liquid  
Color: off-white



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Odor:	characteristic strong odor
Odor threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	-0.4 - 73.4 °F (c.c.)
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	1 - 1.03 g/mL (-)
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No decomposition when used properly.
Viscosity, kinematic:	at 104 °F: $\geq 40$ mm <sup>2</sup> /s (-)

## 10. Stability and reactivity

Reactivity:	Highly flammable liquid and vapor. Vapors may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Reacts with Acids, Alkali (lye), alkali metals, oxidizing agents and peroxides. Polymerization along with heat production. Do not expose to high temperature. Danger of bursting and explosion.
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect against direct sunlight.
Incompatible materials:	Acids, Alkali (lye) Alkali metals, peroxides, strong oxidizing agents
Hazardous decomposition products:	Hazardous vapors may form during fires. In case of fire may be liberated: carbon monoxide and carbon dioxide.
Thermal decomposition:	No decomposition when used properly.



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## 11. Toxicological information

### Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.  
Acute toxicity (oral): Based on available data, the classification criteria are not met.  
ATEmix (calculated):  $2000 < ATE \leq 5000$  mg/kg.  
Acute toxicity (dermal): Based on available data, the classification criteria are not met.  
ATEmix (calculated):  $2000 < ATE \leq 5000$  mg/kg.  
Acute toxicity (inhalative): Based on available data, the classification criteria are not met. ATEmix (calculated):  $ATE > 20$  mg/L.  
Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.  
Eye damage/irritation: Eye Damage - Category 1 = Causes serious eye damage.  
Sensitisation to the respiratory tract: Lack of data.  
Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction.  
Germ cell mutagenicity/Genotoxicity: Lack of data.  
Carcinogenicity: Lack of data.  
Reproductive toxicity: Lack of data.  
Effects on or via lactation: Lack of data.  
Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause respiratory irritation.  
Specific target organ toxicity (repeated exposure): Lack of data.  
Aspiration hazard: Lack of data.

Other information: Information about Methyl methacrylate:  
LD50 Rat, oral: 7872 mg/kg  
LD50 Rabbit, dermal: >5000 mg/kg  
LD50 Rat, inhalative, vapor: 78000 mg/m<sup>3</sup>/4h  
Information about Methacrylic acid:  
LD50 Rat, oral: 1060 mg/kg  
LD50 Rabbit, dermal: 500 mg/kg  
Information about Maleic acid:  
LD50 Rat, oral: 708 mg/kg  
Information about Colophony:  
LD50 Rat, oral: 7600 mg/kg  
Information about 2,6-di-tert-Butyl-p-cresol:  
LD50 Rat, oral: 890 mg/kg

### Symptoms

May cause sensitization by inhalation.



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## 12. Ecological information

### Ecotoxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.  
Information about Methyl methacrylate:  
Fish toxicity: Pimephales promelas (fathead minnow), freshwater, LC50 acute: 130 mg/L/96 h  
Information about Methacrylic acid:  
Algae toxicity: EC50: 45 mg/L/ 96 h  
Daphnia toxicity: EC50: > 130 mg/L/ 48 h  
Fish toxicity: LC50 acute: 85 mg/L/ 96 h  
Daphnia toxicity: Daphnia magna (Big water flea), freshwater, NOEC chronic: 53 mg/L/ 21 d  
Information about Maleic acid:  
Daphnia toxicity: EC50: 160 mg/L/ 48 h  
Fish toxicity: LC50: 106 mg/L/ 96 h  
Information about Colophony:  
Daphnia toxicity: acute EC50: 911 mg/L/ 48 h  
Fish toxicity: LC50: >1000 mg/L/ 96 h  
Information about 2,6-di-tert-Butyl-p-cresol:  
Daphnia toxicity: Daphnia pulex, freshwater, EC50 acute: 1440 µg/L/ 48 h

### Mobility in soil

No data available

### Persistence and degradability

Further details: Biodegradation:  
Information about Methacrylic acid: 86 %/28d. Readily degradable.  
Information about Colophony: 64 %/28d. Readily degradable.

### Additional ecological information

AOX reference: The product contains organically bound halogen. Thus it may add to the AOX value.  
General information: Do not allow to enter into ground-water, surface water or drains. Do not allow uncontrolled discharge of product into the environment.

## 13. Disposal considerations

### Product

Recommendation: Dispose of waste according to applicable legislation.

### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself.





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### 14. Transport information

#### USA: Department of Transportation (DOT)

Identification numbers: UN1133  
Proper shipping name: UN 1133, adhesives  
DOT hazard class or division: 3  
PG: II  
Label codes: 3  
Special provisions: 149, B52, IB2, T4, TP1, TP8  
Packaging - Exceptions: 150  
Packaging - Non-bulk: 173  
Packaging - Bulk: 242  
Quantity limitations - Passenger aircraft / rail: 5 L  
Quantity limitations - Cargo only: 60 L  
Vessel stowage - Location: B  
Vessel stowage - Other:



#### Sea transport (IMDG)

UN number: UN 1133  
Proper shipping name: UN 1133, Adhesives  
IMDG: Class 3, Subrisk -  
Packing Group: II  
EmS: F-E, S-D  
Special provisions: -  
Limited quantities: 5 L  
EQ: E2  
Contaminated packaging - Instructions: P001  
Contaminated packaging - Provisions: PP1  
IBC - Instructions: IBC02  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T4  
Tank instructions - Provisions: TP1, TP8  
Stowage and handling: Category B.  
Properties and observations: Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents. Miscibility with water depends upon their composition.  
Marine pollutant: no

#### Air transport (IATA)

UN/ID number: UN 1133  
Proper shipping name: UN 1133, Adhesives  
ICAO/IATA: Class 3  
PG: II  
Hazard: Flamm. liquid  
EQ: E2  
Passenger Ltd.Qty.: Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L  
Passenger: Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L  
Cargo: Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L  
Special Provisioning: A3  
ERG: 3L



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### 15. Regulatory information

#### National regulations - U.S. Federal Regulations

Methyl methacrylate:

TSCA: listed - Flags: T  
TSCA Inventory: listed; EPA flags T  
TSCA HPVC: not listed  
Carcinogen Status:  
IARC Rating: Group 3  
OSHA Carcinogen: not listed  
NTP Rating: not listed  
Clean Air Act:  
Hazardous Air Pollutants: Code XO V  
SOCMI Chemical: yes  
Clean Water Act:  
Hazardous Substances: RQ 1000 lbs.  
Other Environmental Laws:  
CERCLA: RQ 1000 lbs.  
RCRA Hazardous Wastes: Code U162  
RCRA Groundwater Monitoring: Methods 8015, 8240 / PQL 2, 5  
SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard  
NIOSH Recommendations:  
Occupational Health Guideline: 0426

Methacrylic acid:

TSCA: listed  
TSCA Inventory: listed  
TSCA HPVC: not listed  
Clean Air Act:  
SOCMI Chemical: yes  
NIOSH Recommendations:  
Occupational Health Guideline: 0386\*

Maleic acid:

TSCA Inventory: listed  
TSCA HPVC: not listed  
Clean Water Act:  
Hazardous Substances: RQ 5000 lbs.  
Other Environmental Laws:  
CERCLA: RQ 5000 lbs.

Colophony:

TSCA Inventory: listed; UVCB  
TSCA HPVC: not listed

2,6-di-tert-Butyl-p-cresol:

TSCA Inventory: listed  
TSCA HPVC: not listed  
Carcinogen Status:  
IARC Rating: Group 3  
OSHA Carcinogen: not listed  
NTP Rating: not listed  
NIOSH Recommendations:  
Occupational Health Guideline: 0246



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### National regulations - U.S. State Regulations

Methyl methacrylate:	Delaware Air Quality Management List: DRQ: 1000 - RQ State: Federal Regulations Apply Idaho Air Pollutant List: Title 585; AAC: 20,5 - EL: 27,3 - OEL: 410 - Title 586: - Massachusetts Haz. Substance Codes: 2,4,5,6 F8 F9 Main: HAP - 2000 Minnesota Haz. Substance: Codes: AO - Ratings: 3.79 - Status: Air Pollutant. Title III. TRI. New Jersey RTK Hazardous Substance: DOT: 1247 - Sub No.: 1277 New York List of Hazardous Substances: RQ-Air: 1000 - RQ-Land: 1 No Note Associated with this chemical Pennsylvania Haz. Substance Code: E Washington Air Contaminant: TWA: 100 ppm = 410 mg
Methacrylic acid:	Idaho Air Pollutant List: Title 585 -- AAC: 3.5 -- EL: 4.67 -- WEL: 70 - Title 586 - Massachusetts Haz. Substance codes: 4,5,6 Minnesota Haz. Substance: Codes: A -- Ratings: - Pennsylvania Haz. Substance code: - Washington Air Contaminant: TWA: 20 ppm - 70 mg Skin: Protective measures should be taken to prevent or reduce skin absorption.
Maleic acid:	Delaware Air Quality Management List: DRQ: 5000 - RQ State: Federal Regulations Apply Massachusetts Haz. Substance codes: F8 New York List of Hazardous Substances: RQ-Air: 5000 - RQ-Land: 100 - Note: No Note Associated with this chemical. Pennsylvania Haz. Substance code: E

### National regulations - Great Britain

Hazchem-Code: •3YE

## 16. Other information

Text for labeling: Contains 50 - 75 % Methyl methacrylate, < 5 % Methacrylic acid, < 3 % Maleic acid, < 3 % Colophony, < 1 % 2,6-di-tert-Butyl-p-cresol. Safety data sheet available on request.

Date of first version: Jan/21/2016

### Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.