



SAFETY DATA SHEET

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

Revision date: Jan/3/2017

Version: 3

Language: en-US

Date of print: Jan/10/2017

RK-7100 Adhesive

Material number 105661

Page: 1 of 12

1. Product and company identification

Product identifier

Trade name: RK-7100 Adhesive

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

General use: Resin for 2 component adhesive.
Reserved for industrial and professional use.

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

Emergency phone number

EMERGENCY CONTACT – USA (24h): Tel: ++1 202 464 2554

Transport:

TRANSPORT EMERGENCY CONTACT - USA (24h): Tel: ++1 202 464 2554

2. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid
Color: whitish
Odor: stinging
Classification: Flammable Liquid - Category 2; Skin Corrosion - Category 1A; 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

Hazard statements: Highly flammable liquid and vapor.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May cause respiratory irritation.
Harmful to aquatic life with long lasting effects.



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RK-7100 Adhesive

Material number 105661

Page: 2 of 12

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.
Do not breathe 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 SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of water/soap.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or 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.
Wash contaminated clothing before reuse.
In case of fire: Use water spray, dry powder, foam or carbon dioxide 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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in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

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RK-7100 Adhesive

Material number 105661

Page:

3 of 12

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	< 10 %	Acute Toxicity - oral - Category 4. Acute Toxicity - dermal - Category 3. Acute Toxicity - inhalative - Category 4. Skin Corrosion - Category 1A. Eye Damage - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3.
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 80-15-9	Cumene hydroperoxide	< 1 %	Organic Peroxide - Category E. Acute Toxicity - oral - Category 4. Acute Toxicity - dermal - Category 3. Acute Toxicity - inhalative - Category 3. Skin Corrosion - Category 1B. Specific Target Organ Toxicity (Repeated Exposure) - Category 2. Aquatic toxicity - chronic - Category 2.
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:	Take off immediately all contaminated clothing and wash it before reuse. First aider: Pay attention to self-protection!
In case of inhalation:	Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Put victim at rest and keep warm. Immediately get medical attention.
Following skin contact:	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Immediately get medical attention.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Seek the attention of an ophthalmologist immediately.
After swallowing:	Do not induce vomiting. Rinse mouth with water. In case of ingestion: Give water to drink in small sips. Never give anything by mouth to an unconscious person. Immediately get medical attention.

Most important symptoms/effects, acute and delayed

Causes severe skin burns and eye damage. May cause an allergic skin reaction.
May cause respiratory irritation. Drowsiness, Reddening, vomiting.



SAFETY DATA SHEET

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

Revision date: Jan/3/2017

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Language: en-US

Date of print: Jan/10/2017

RK-7100 Adhesive

Material number 105661

Page: 4 of 12

Information to physician

Treat symptomatically. Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure.

5. Fire fighting measures

Flash point/flash point range:

51.8 °F (c.c.)

Auto-ignition temperature: No data available

Suitable extinguishing media:

Water fog, foam, dry chemical powder, sand, carbon dioxide

Extinguishing media which must not be used for safety reasons:

High power water jet

Specific hazards arising from the chemical

Highly flammable liquid and vapor. Vapors form explosive mixtures with air. Vapor may travel great distances and cause fire and backflashes. 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:

Heating will lead to pressure increase: Danger of bursting and explosion. Keep containers cool with water spray.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

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. Use a breathing protection against vapors/aerosol. Do not breathe vapor or spray. Eliminate all ignition sources if safe to do so. Avoid contact with skin and eyes. Wear appropriate protective equipment. Keep unprotected people away.

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).

Additional information:

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



SAFETY DATA SHEET

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

Revision date: Jan/3/2017

Version: 3

Language: en-US

Date of print: Jan/10/2017

RK-7100 Adhesive

Material number 105661

Page: 5 of 12

7. Handling and storage

Handling

Advices on safe handling: Provide good ventilation and/or an exhaust system in the work area. Handle and open container with care. Do not breathe vapor or spray. The vapors are heavier than air and can accumulate in high concentrations on the ground. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse. 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:

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

Hints on joint storage:

Do not store together with combustible or self-igniting materials or any highly flammable solids.
Keep away from oxidizing agents.
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 ³ ; 100 ppm 205 mg/m ³ ; 50 ppm 410 mg/m ³ ; 100 ppm 410 mg/m ³ ; 100 ppm
79-41-4	Methacrylic acid	USA: ACGIH: TWA USA: NIOSH: TWA	70 mg/m ³ ; 20 ppm 70 mg/m ³ ; 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 ³ inhalable fraction and vapor 10 mg/m ³

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.



SAFETY DATA SHEET

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

Revision date: Jan/3/2017

Version: 3

Language: en-US

Date of print: Jan/10/2017

RK-7100 Adhesive

Material number 105661

Page: 6 of 12

Protective gloves according to OSHA Standard - 29 CFR: 1910.138. 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/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

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 and wash it before reuse.

When using do not eat, drink or smoke. Wash hands before breaks and after work.

Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: liquid Color: whitish
Odor:	stinging
Odor threshold:	not determined
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:	51.8 °F (c.c.)
Evaporation rate:	No data available
Flammability:	Highly flammable liquid and vapor.
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	1.00 - 1.03 g/mL
Solubility:	No data available
Partition coefficient: n-octanol/water:	Information about 2,6-di-tert-Butyl-p-cresol: 5.1 log P(o/w) Based on the n-octanol/water partition coefficient accumulation in organisms is possible.
Auto-ignition temperature:	No data available
Thermal decomposition:	No decomposition when used properly.
Viscosity, kinematic:	at 104 °F: $\geq 4.0 \text{ mm}^2/\text{s}$
Explosive properties:	Vapors may form explosive mixtures with air.

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	Heating will lead to pressure increase: Danger of bursting and explosion.



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Version: 3

Language: en-US

Date of print: Jan/10/2017

RK-7100 Adhesive

Material number 105661

Page: 7 of 12

- Conditions to avoid: Keep away from heat sources, sparks and open flames.
Protect against direct sunlight.
- Incompatible materials: Oxidizing agents.
- Hazardous decomposition products: No hazardous decomposition products when regulations for storage and handling are observed.
- Thermal decomposition: No decomposition when used properly.

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 (estimated): > 5000 mg/kg.
- Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (estimated): > 5000 mg/kg.
- Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix (estimated): > 20000 ppm. (Gases)
- Skin corrosion/irritation, eye damage/irritation: Skin Corrosion - Category 1A = Causes severe skin burns and 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: 7900-9400 mg/kg
LD50 Rabbit, dermal: >5000 mg/kg
LD50 Rat, inhalative, vapor: 29.8 mg/L/4h
- Information about Methacrylic acid:
LD50 Rat, oral: 1320-2260 mg/kg
LD50 Rabbit, dermal: 500-1000 mg/kg
LD50 Rat, inhalative, vapor: 7.1 mg/L/4h
- For carcinogenic effects:
- Information about Methyl methacrylate:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
- Information about 2,6-di-tert-Butyl-p-cresol:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed



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Version: 3

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Date of print: Jan/10/2017

RK-7100 Adhesive

Material number 105661

Page: 8 of 12

12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.
Information about 2,6-di-tert-Butyl-p-cresol:
Daphnia toxicity:
LD50 Daphnia pulex (water flea): 1440 µg/L/48h

Mobility in soil

No data available

Persistence and degradability

Further details: Biodegradation:
Information about 2,6-di-tert-Butyl-p-cresol:
<10% / 20 d (OECD 301 C). Product is not readily biodegradable.
Information about Methacrylic acid:
86% / 28 d. Product is readily biodegradable.
Information about Colophony 64%/28d

Additional ecological information

AOX reference: The product contains organically bound halogen. Thus it may add to the AOX value.

Volatile organic compounds (VOC):
63 % by weight

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. Handle empty containers with care. Incineration may cause explosion.

14. Transport information

USA: Department of Transportation (DOT)

Identification number: UN2924
Proper shipping name: UN 2924, flammable liquids, corrosive, n.o.s. ()
Hazard class or Division: 3
Packing Group: II
Labels: 3, 8
Symbols: G
Special provisions: IB2, T11, TP2, TP27
Packaging – Exceptions: 150
Packaging – Non-bulk: 202
Packaging – Bulk: 243
Quantity limitations – Passenger aircraft / rail: 1 L
Quantity limitations – Cargo only: 5 L
Vessel stowage – Location: B
Vessel stowage – Other: 40





SAFETY DATA SHEET

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

Revision date: Jan/3/2017

Version: 3

Language: en-US

Date of print: Jan/10/2017

RK-7100 Adhesive

Material number 105661

Page: 9 of 12

Sea transport (IMDG)

UN number: UN 2924
Proper shipping name: UN 2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S. ()
Class or division, Subsidiary risk: Class 3, Subrisk 8
Packing Group: II
EmS: F-E, S-C
Special provisions: 274
Limited quantities: 1 L
Excepted quantities: E2
Contaminated packaging - Instructions: P001
Contaminated packaging - Provisions: -
IBC - Instructions: IBC02
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T11
Tank instructions - Provisions: TP2, TP27
Stowage and handling: Category B. SW2
Properties and observations: Causes burns to skin, eyes and mucous membranes.
Marine pollutant: no
Segregation group: none

Air transport (IATA)

UN/ID number: UN 2924
Proper shipping name: UN 2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S. ()
Class or division, Subsidiary risk: Class 3, Subrisk 8
Packing Group: II
Hazard label: Flamm. liquid & Corrosive
Excepted Quantity Code: E2
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y340 - Max. Net Qty/Pkg. 0.5 L
Passenger and Cargo Aircraft: Pack.Instr. 352 - Max. Net Qty/Pkg. 1 L
Cargo Aircraft only: Pack.Instr. 363 - Max. Net Qty/Pkg. 5 L
Special provisions: A3
Emergency Response Guide-Code (ERG): 3CH



SAFETY DATA SHEET

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

Revision date: Jan/3/2017

Version: 3

Language: en-US

Date of print: Jan/10/2017

RK-7100 Adhesive

Material number 105661

Page: 10 of 12

15. Regulatory information

National regulations - U.S. Federal Regulations

Methyl methacrylate:	TSCA Inventory: listed; EPA flags T TSCA HPVC: not listed TSCA: listed - Flags: T Carcinogen Status: IARC Rating: Group 3 OSHA Carcinogen: not listed NTP Rating: not listed Clean Air Act: Hazardous Air Pollutants: Code XOY 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 Inventory: listed TSCA HPVC: not listed TSCA: 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
Cumene hydroperoxide:	TSCA Inventory: listed TSCA HPVC: not listed Clean Air Act: SOCMI Chemical: yes Other Environmental Laws: CERCLA: RQ 10 lbs. RCRA Hazardous Wastes: Code U096 SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard OSHA Process Safety Management: Threshold 5000 lbs.
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



SAFETY DATA SHEET

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

Revision date: Jan/3/2017
Version: 3
Language: en-US
Date of print: Jan/10/2017

RK-7100 Adhesive

Material number 105661

Page: 11 of 12

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
Cumene hydroperoxide:	California Proposition 65 code: - Delaware Air Quality Management List: DRQ: 10 - RQ State: Federal Regulations Apply Massachusetts Haz. Substance codes: 5,6 F8 F9 New Jersey Extraordinarily Hazardous Substances: NJ Threshold: 2500 - NJ Group: I - NJ Table: I Part D - NJ Basis: NFPA 325 New Jersey RTK Hazardous Substance: DOT: 2116 - Sub No.: 0543 - TPQ: - New York List of Hazardous Substances: RQ-Air: 10 - RQ-Land: 10 - Note: No Note Associated with this chemical. Pennsylvania Haz. Substance code: E

National regulations - Great Britain

Hazchem-Code: •3WE

16. Other information

Text for labeling: Contains 50 - 75 % Methyl methacrylate, < 10 % Methacrylic acid, < 3 % Maleic acid, < 3 % Colophony, < 1 % Cumene hydroperoxide, < 1 % 2,6-di-tert-Butyl-p-cresol. Safety data sheet available on request.



SAFETY DATA SHEET

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

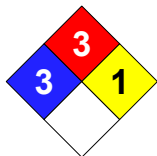
Revision date: Jan/3/2017
Version: 3
Language: en-US
Date of print: Jan/10/2017

RK-7100 Adhesive

Material number 105661

Page: 12 of 12

Hazard rating systems:



NFPA Hazard Rating:
Health: 3 (Serious)
Fire: 3 (Serious)
Reactivity: 1 (Slight)
HMIS Version III Rating:
Health: 3 (Serious) - Chronic effects
Flammability: 3 (Serious)
Physical Hazard: 1 (Slight)
Personal Protection: X = Consult your supervisor

HEALTH	*	3
FLAMMABILITY		3
PHYSICAL HAZARD		1
		X

Reason of change: Changes in section 3: Composition / Information on ingredients
Changes in section 2: Classification, labeling
General revision

Date of first version: Jan/2/2016

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.