

1. Product and company identification

Product identifier

Trade name: RK-7200 Adhesive

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

General use: Two-component glue
For commercial user only.

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
Form: viscous
Color: colorless
Odor: characteristic
Classification: Flammable Liquid - Category 2; Acute Toxicity - oral - Category 4; Acute Toxicity - inhalative - Category 4; Skin Irritation - Category 2; Eye Irritation - Category 2A; Sensitization - skin - Category 1; Carcinogenicity - Category 2; Specific Target Organ Toxicity (Single Exposure) - Category 3; Specific Target Organ Toxicity (Repeated Exposure) - Category 2;

Hazard symbols:



Danger

Highly flammable liquid and vapor.
Harmful if swallowed.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful if inhaled.
May cause respiratory irritation.
Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure.



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Precautionary statements: Obtain special instructions before use.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Ground and bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash hands and face thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

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

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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.

IF exposed or concerned: Get medical advice/attention.

Call a POISON CENTER/doctor if you feel unwell.

Specific treatment (see 'First aid' on this label).

Rinse mouth.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing.

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

Special danger of slipping by leaking/spilling product.

Potentially explosive mixtures may form if adequate ventilation is not provided.

Higher doses may have a narcotic effect.

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Two-component glue



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Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 80-62-6	Methyl methacrylate	30 - 50 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Sensitization - skin - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 868-77-9	2-Hydroxyethyl methacrylate	10 - 30 %	Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1.
CAS 106-91-2	2,3-Epoxypropyl methacrylate	1 - 10 %	Acute Toxicity - oral - Category 4. Acute Toxicity - dermal - Category 4. Acute Toxicity - inhalative - Category 4. Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1.
CAS 80-15-9	Cumene hydroperoxide	1 - 10 %	Organic Peroxide - Category E. Acute Toxicity - oral - Category 4. Acute Toxicity - dermal - Category 4. Acute Toxicity - inhalative - Category 3. Skin Corrosion - Category 1B. Specific Target Organ Toxicity (Repeated Exposure) - Category 2.
CAS 123-31-9	Hydroquinone	< 1 %	Acute Toxicity - oral - Category 4. Eye Damage - Category 1. Sensitization - skin - Category 1. Germ cell mutagenicity - Category 2. Carcinogenicity - Category 2. Aquatic toxicity - acute - Category 1.

4. First aid measures

General information:	If medical advice is needed, have product container or label at hand.
First aider:	Pay attention to self-protection!
In case of inhalation:	Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical attention if irritation persists.
Following skin contact:	Take off immediately all contaminated clothing and wash it before reuse. After contact with skin, wash immediately with soap and plenty of water. 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. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently seek the immediate attention of an ophthalmologist.
After swallowing:	Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Immediately get medical attention. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

May cause respiratory irritation.
Harmful if inhaled.
Harmful if swallowed.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause damage to organs through prolonged or repeated exposure.

Information to physician

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. Treat symptomatically.



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5. Fire fighting measures

Flash point/flash point range:

59 °F

Auto-ignition temperature: 806 °F

Suitable extinguishing media:

Water fog, alcohol resistant foam, dry chemical powder, 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.

Explosive mixtures with air may even form at room temperature.

Air combined with vapors may form potentially explosive mixtures that are heavier than air. Vapor may travel great distances and cause fire and backflashes.

May form dangerous gases and vapours in case of fire.

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.

Additional information:

Do not expose to high temperature. Danger of bursting and explosion.

Cool endangered containers with water spray and, if possible, remove from danger zone.

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

Do not allow fire water to penetrate into surface or ground water.

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

6. Accidental release measures

Personal precautions: Provide adequate ventilation. In case of leakage, eliminate all ignition sources. Remove persons to safety.

Avoid contact with the substance. Avoid breathing vapors. When vapors form, use respiratory protection.

Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse.

Keep unprotected people away.

Cordon off downwind area at risk and warn inhabitants. Avoid exposure.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. Danger of explosion!

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. 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.



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7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Obtain special instructions before use.
Provide room air exhaust at ground level. Concentrated vapors are heavier than air.
Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse. Avoid breathing vapors.
Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.
Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharges.
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.
Keep at temperature not exceeding 86 °F.

Hints on joint storage: Do not store together with combustible or self-igniting materials or any highly flammable solids. Keep away from food, drink and animal feedingstuffs.
Avoid contact with strong oxidizing agents. Do not store together with strong acids.

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	410 mg/m ³ ; 100 ppm
		USA: ACGIH: TWA	205 mg/m ³ ; 50 ppm
		USA: NIOSH: TWA	410 mg/m ³ ; 100 ppm
		USA: OSHA: TWA	410 mg/m ³ ; 100 ppm
123-31-9	Hydroquinone	NIOSH: Ceiling	2 mg/m ³
		USA: ACGIH: TWA	1 mg/m ³
		USA: OSHA: TWA	2 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.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: nitrile rubber

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.



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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:

Obtain special instructions before use. Use 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.

Wear appropriate protective equipment. 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.

Work place should be equipped with a shower and an eye rinsing apparatus.

9. Physical and chemical properties

Information on basic physical and chemical properties

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

Form: viscous

Color: colorless

Odor: characteristic

Odor threshold: No data available

pH value: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: 213.8 °F

Flash point/flash point range: 59 °F

Evaporation rate: No data available

Flammability: Highly flammable liquid and vapor.

Explosion limits: LEL (Lower Explosion Limit): 2.10 Vol-%

UEL (Upper Explosive Limit): 12.50 Vol-%

Vapor pressure: No data available

Vapor density: No data available

Density: No data available

Solubility: No data available

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: 806 °F

Thermal decomposition: No data available

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 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: Strong oxidizing agents, strong acids.



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Hazardous decomposition products:

In case of fire may be liberated: carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

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): Acute Toxicity - oral - Category 4 = Harmful if swallowed. ATEmix calculated: 1500-1800 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met. ATEmix calculated: > 2000 mg/kg

Acute toxicity (inhalative): Acute Toxicity - inhalative - Category 4 = Harmful if inhaled. ATEmix calculated: 10-20 mg/L

Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.

Eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation.

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: Carcinogenicity - Category 2 = Suspected of causing cancer.

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): Specific Target Organ Toxicity (Repeated Exposure) - Category 2 = May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Lack of data.

Information about methyl methacrylate: LD50 Rat, oral: 7872 mg/kg

Information about 2-Hydroxyethyl methacrylate: LD50 Rat, oral: 5050 mg/kg

Information about 2,3-Epoxypropyl methacrylate: LD50 Rat, oral: 500 mg/kg

Information about Cumene hydroperoxide: LD50 Rat, oral: 382 mg/kg

Information about Hydroquinone: LD50 Rat, oral: 720 mg/kg

For carcinogenic effects

Information about methyl methacrylate and Hydroquinone:

IARC-Classification code: group 3

OSHA - Carcinogen: not listed ingredient

NTP - classification: not listed ingredient

Symptoms

In case of inhalation: Cough, wheezing

12. Ecological information

Ecotoxicity

Further details: No data available

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.

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.
Non-contaminated packages may be recycled.
Handle empty containers with care. Incineration may cause explosion.

14. Transport information**USA: Department of Transportation (DOT)**

Identification number: UN1133
Proper shipping name: UN 1133, adhesives
Hazard class or Division: 3
Packing Group: II
Labels: 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:





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Sea transport (IMDG)

UN number:	UN 1133
Proper shipping name:	UN 1133, Adhesives
Class or division, Subsidiary risk:	Class 3, Subrisk-
Packing Group:	II
EmS:	F-E, S-D
Special provisions:	-
Limited quantities:	5 L
Excepted quantities:	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
Segregation group:	none

Air transport (IATA)

UN/ID number:	UN 1133
Proper shipping name:	UN 1133, Adhesives
Class or division, Subsidiary risk:	Class 3
Packing Group:	II
Hazard label:	Flamm. liquid
Excepted Quantity Code:	E2
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft:	Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only:	Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L
Special provisions:	A3
Emergency Response Guide-Code (ERG):	3L



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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 XOV 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
2-Hydroxyethyl methacrylate:	TSCA Inventory: listed 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.
Hydroquinone:	TSCA Inventory: listed 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 XOV SOCMI Chemical: yes Other Environmental Laws: CERCLA: RQ 100 lbs. SARA Title III Section 302, EHS: TPQ 500/10000 lbs. / RQ 100 lbs. SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard NIOSH Recommendations: Occupational Health Guideline: 0338

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
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: •3YE

16. Other information

Text for labeling:
Contains 30 - 50 % Methyl methacrylate, 10 - 30 % 2-Hydroxyethyl methacrylate, 1 - 10 % 2,3-Epoxypropyl methacrylate, 1 - 10 % Cumene hydroperoxide, < 1 % Hydroquinone. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)
Fire: 3 (Serious)
Reactivity: 1 (Slight)

HMIS Version III Rating:

Health: 2 (Moderate) - Chronic effects
Flammability: 3 (Serious)
Physical Hazard: 1 (Slight)
Personal Protection: X = Consult your supervisor

HEALTH	*	2
FLAMMABILITY	3	
PHYSICAL HAZARD	1	X

Reason of change:

Changes in section 1: General revision

Date of first version:

May/24/2016

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.