



SAFETY DATA SHEET

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

Revision date: Aug/5/2016

Version: 2

Language: en-US

Date of print: Aug/11/2016

RK-7200 Hardener

Material number 105642

Page: 1 of 10

1. Product and company identification

Product identifier

Trade name: RK-7200 Hardener

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

General use: Two-component glue, Curing agent
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
Color: colorless
Odor: characteristic
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;

Hazard symbols:



Signal word:

Danger

Hazard statements: Highly flammable liquid and vapor.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause respiratory irritation.



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Precautionary statements: 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.

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.

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 [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.

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: Curing agent

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 80-62-6	Methyl methacrylate	50 - 70 %	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 79-41-4	Methacrylic acid	1 - 10 %	Acute Toxicity - oral - Category 4. Acute Toxicity - dermal - Category 4. Skin Corrosion - Category 1A.



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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.
- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye damage.

Information to physician

Treat symptomatically.

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, dry sand.
- Extinguishing media which must not be used for safety reasons: High power water jet

Specific hazards arising from the chemical

- 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.



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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.
- 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.

7. Handling and storage

Handling

- Advices on safe handling:** Provide adequate ventilation, and local exhaust as needed.
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.
Keep away from strong acids. Avoid contact with strong oxidizing agents.



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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
79-41-4	Methacrylic acid	USA: ACGIH: TWA	70 mg/m ³ ; 20 ppm
		USA: NIOSH: TWA	70 mg/m ³ ; 20 ppm
			(May be absorbed through the skin.)

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.

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 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 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:	<= 95 °F
Flash point/flash point range:	59 °F
Evaporation rate:	No data available



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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
Hazardous decomposition products:	In case of fire may be liberated: carbon monoxide and carbon dioxide.
Thermal decomposition:	No data available



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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 mg/kg
Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix calculated: > 2000 mg/kg
Acute toxicity (inhalative): Lack of data.
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
Information about Methacrylic acid: LD50 Rat, oral: 5050 mg/kg
Information about 2-Hydroxyethyl methacrylate: LD50 Rat, oral: 1600 mg/kg
For carcinogenic effects
Information about methyl methacrylate:
IARC-Classification code: group 3
OSHA - Carcinogen: not listed ingredient
NTP - classification: not listed ingredient

Symptoms

unconsciousness, vomiting, respiratory complaints, headache

12. Ecological information

Ecotoxicity

Further details: No data available

Mobility in soil

Will be adsorbed by the ground and stays immobile.

Persistence and degradability

Further details: Product is biodegradable.

Additional ecological information

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



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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: I
Labels: 3
Special provisions: T11, TP1, TP8, TP27
Packaging – Exceptions: 150
Packaging – Non-bulk: 201
Packaging – Bulk: 243
Quantity limitations – Passenger aircraft / rail: 1 L
Quantity limitations – Cargo only: 30 L
Vessel stowage – Location: B
Vessel stowage – Other:



Sea transport (IMDG)

UN number: UN 1133
Proper shipping name: UN 1133, Adhesives
Class or division, Subsidiary risk: Class 3, Subrisk-
Packing Group: I
EmS: F-E, S-D
Special provisions: -
Limited quantities: 500 mL
Excepted quantities: E3
Contaminated packaging - Instructions: P001
Contaminated packaging - Provisions: -
IBC - Instructions: -
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T11
Tank instructions - Provisions: TP1, TP8, TP27
Stowage and handling: Category E.
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



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Air transport (IATA)

UN/ID number: UN 1133
Proper shipping name: UN 1133, Adhesives
Class or division, Subsidiary risk: Class 3
Packing Group: I
Hazard label: Flamm. liquid
Excepted Quantity Code: E3
Passenger and Cargo Aircraft: Ltd.Qty.: Forbidden
Passenger and Cargo Aircraft: Pack.Instr. 351 - Max. Net Qty/Pkg. 1 L
Cargo Aircraft only: Pack.Instr. 361 - Max. Net Qty/Pkg. 30 L
Special provisions: A3
Emergency Response Guide-Code (ERG): 3L

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

2-Hydroxyethyl methacrylate: TSCA Inventory: listed
TSCA HPVC: not listed

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



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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.

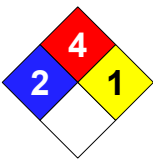
National regulations - Great Britain

Hazchem-Code: •3YE

16. Other information

Text for labeling: Contains 50 - 70 % Methyl methacrylate, 10 - 30 % 2-Hydroxyethyl methacrylate, 1 - 10 % Methacrylic acid. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:
 Health: 2 (Moderate)
 Fire: 4 (Severe)
 Reactivity: 1 (Slight)

HMIS Version III Rating:
 Health: 2 (Moderate)
 Flammability: 4 (Severe)
 Physical Hazard: 1 (Slight)
 Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	4
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.