

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Name of product Easy-Mix RK-7000 Hardener
Code-Nr. 105652

**1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended intended purpose(s)**

2-Component Epoxy Resin - Hardener Component

1.3. Details of the supplier of the safety data sheet**Distributor**

WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster
Phone : +49(0)251 / 9322 - 0, Fax : +49(0)251 / 9322 - 244
E-Mail : msds@weicon.de
Internet : www.weicon.de

Advice

Produktsicherheit / Product-Safety-Department
Phone : +49(0)251 / 9322 - 0
Fax : +49(0)251 / 9322 - 244
E-mail (competent person):
msds@weicon.de

1.4. Emergency telephone number

EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel:
++44 1865 407333 (English)
TRANSPORT EMERGENCY CONTACT - UK, UAE, South
Africa (24h): Tel: ++44 1865 407333 (English)

Manufacturer

WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster

1.4. Emergency telephone number

GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h):
Tel: ++49 69 222 25285 (Deutsch, Englisch)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

| Hazard classes and Hazard categories | Hazard Statements | Classification procedure |
|--------------------------------------|-------------------|--------------------------|
|--------------------------------------|-------------------|--------------------------|

| | | |
|---------------|------|--|
| Flam. Liq. 2 | H225 | |
| Skin Irrit. 2 | H315 | |
| Skin Sens. 1 | H317 | |
| STOT SE 3 | H335 | |

Hazard Statements

| | |
|------|--------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**

GHS02



GHS07

Signal word

Danger

Hazard Statements

| | |
|------|--------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |

Precautionary Statements

| | |
|--------------------|--|
| P102 | Keep out of reach of children. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash hands thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P303 + P361 + P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| P332 + P313 | If skin irritation occurs: Get medical advice/attention. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362 | Take off contaminated clothing. |
| P363 | Wash contaminated clothing before reuse. |
| P370 + P378 | In case of fire: Use foam for extinction. |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P403 + P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to hazardous or special waste collection point. |

Hazardous ingredients for labeling

methyl methacrylate

2.3. Other hazards**Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

! SECTION 3: Composition/ information on ingredients
3.1. Substances

not applicable

3.2. Mixtures
Description

Preparation of different active substances

! Hazardous ingredients

| CAS No | EC No | Name | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] |
|------------|-----------|---|------------|---|
| 80-62-6 | 201-297-1 | methyl methacrylate | 50 <= 75 | Flam. Liq. 2, H225 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 |
| | 400-160-5 | fatty acids, tall-oil, reaction products with iminodiethanol and boric acid | < 1 | Skin Irrit. 2, H315 / Aquatic Chronic 2, H411 |
| 27138-31-4 | 248-258-5 | Oxydipropyldibenzoat | < 10 | Aquatic Chronic 3, H412 |
| 34562-31-7 | 252-091-3 | 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine | 1 < 3 | Acute Tox. 4, H302, H312 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / Aquatic Chronic 4, H413 |
| 107-98-2 | 203-539-1 | 1-methoxy-2-propanol | < 0,1 | Flam. Liq. 3, H226 / STOT SE 3, H336 |
| 34590-94-8 | 252-104-2 | (2-Methoxymethylethoxy)-propanol | < 0,1 | nicht eingestuft |

REACH

| CAS No | Name | REACH registration number |
|------------|---|-----------------------------|
| 80-62-6 | methyl methacrylate | 01-2119452498-28 |
| | fatty acids, tall-oil, reaction products with iminodiethanol and boric acid | not subject to registration |
| 27138-31-4 | Oxydipropyldibenzoat | 01-2119529241-49 |
| 34562-31-7 | 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine | 01-2120769712-47 |
| 107-98-2 | 1-methoxy-2-propanol | 01-2119457435-35 |
| 34590-94-8 | (2-Methoxymethylethoxy)-propanol | 01-2119450011-60 |

SECTION 4: First aid measures
4.1. Description of first aid measures
General information

Remove contaminated soaked clothing immediately.

In case of inhalation

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of ingestion

Do not induce vomiting.

Call for a doctor immediately.

Rinse out mouth thoroughly with water.

4.2. Most important symptoms and effects, both acute and delayed
Physician's information / possible symptoms

vomiting

Respiratory complaints

Allergic symptoms

Confusion

skin irritation



Physician's information / possible dangers

allergic reactions

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam

Dry powder

Carbon dioxide

Dry sand

water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Metal oxides

In case of fire formation of dangerous gases possible.

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Do not inhale explosion and/or combustion gases.

Additional information

Cool endangered containers with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation.

Use personal protective clothing.

Keep away sources of ignition.

Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Inform pollution control authorities if product gets into the sewerage systems or open waters.

Do not discharge into the drains or bodies of water..

Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

After taking up the material dispose according to regulation.

Additional Information

Sort out leaky cans and dispose according to regulations.

**6.4. Reference to other sections**

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Keep container tightly closed.

Ventilate closed rooms at ground level.

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

Hygiene measures

At work do not eat, drink, smoke or take drugs.

Remove soiled or soaked clothing immediately.

Wash hands and skin before breaks and after work.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

Protect from heat and sunlight.

Take precautionary measures against static discharges.

Pay attention to general rules of internal fire prevention.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep only in original container.

Advice on storage compatibility

Do not store with acids or alkalies.

Do not store together with animal feedstuffs.

Do not store together with food.

Do not store together with oxidizing agents.

Further information on storage conditions

Keep container tightly closed and store at cool and aired place.

Protect from heat and direct solar radiation.

Store in a dry place.

7.3. Specific end use(s)**Recommendation(s) for intended use**

See section 1.2

! SECTION 8: Exposure controls/personal protection**8.1. Control parameters****! Ingredients with occupational exposure limits to be monitored**

| CAS No | Name | Code | [mg/m ³] | [ppm] | Remark |
|------------|----------------------------------|------------|----------------------|-------|-----------|
| 34590-94-8 | (2-Methoxymethylethoxy) propanol | 8 hours | 308 | 50 | EH40/2005 |
| 107-98-2 | 1 -Methoxypropan-2-ol | 8 hours | 375 | 100 | EH40/2005 |
| | | Short-term | 560 | 150 | |
| 80-62-6 | Methyl methacrylate | 8 hours | 208 | 50 | EH40/2005 |
| | | Short-term | 416 | 100 | |



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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Easy-Mix RK-7000 Hardener

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)

| CAS No | Name | Code | [mg/m3] | [ppm] | Remark |
|----------|----------------------|------------|---------|-------|--------|
| 107-98-2 | 1-methoxy-2-propanol | 8 hours | 375 | 100 | skin |
| | | Short-term | 568 | 150 | |
| 80-62-6 | methyl-methacrylate | 8 hours | | 50 | |
| | | Short-term | | 100 | |

DNEL-/PNEC-values

DNEL worker

| CAS No | Substance name | Value | Code | Remark |
|------------|----------------------|---------------------|--|--------|
| 27138-31-4 | Oxydipropyldibenzoat | 10 mg/kg bw/day | DNEL long-term dermal (systemic) | |
| | | 170 mg/kg bw/day | DNEL acute dermal, short-term (systemic) | |
| | | 8,8 mg/m3 | DNEL long-term inhalative (systemic) | |

PNEC

| CAS No | Substance name | Value | Code | Remark |
|------------|----------------------|--------------|-----------------------------------|--------|
| 27138-31-4 | Oxydipropyldibenzoat | 1,49 mg/kg | PNEC sediment, freshwater | |
| | | 0,00037 mg/l | PNEC aquatic, marine water | |
| | | 1 mg/kg | PNEC soil, freshwater | |
| | | 0,0037 mg/l | PNEC aquatic, freshwater | |
| | | 10 mg/kg | PNEC sewage treatment plant (STP) | |
| | | 0,149 mg/kg | PNEC sediment, marine water | |

Additional advice

The statutory local and national regulations have to be observed.

8.2. Exposure controls

Respiratory protection

If ventilation insufficient, wear respiratory protection.

Short-term: filter apparatus, filter AX/P2, otherwise environment-independent breathing apparatus.

Hand protection

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: butyl rubber, 0,7mm; 480min

Eye protection

tightly fitting goggles

Other protection measures

protective clothing

Appropriate engineering controls

Sufficient ventilation and exhaustion.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**
pasty**Colour**
whitish**Odour**
pungent**Odour threshold**
not determined**Important health, safety and environmental information**

| | Value | Temperature | at | Method | Remark |
|---|-----------------------------------|-------------|----|------------|-----------|
| pH value | not determined | | | | |
| boiling point | not determined | | | | |
| melting point | not determined | | | | |
| Flash point | 10 °C | | | closed cup | |
| Vapourisation rate | not determined | | | | |
| Flammable (solid) | not applicable | | | | |
| Flammability (gas) | not applicable | | | | |
| Ignition temperature | not determined | | | | |
| Self ignition temperature | not determined | | | | |
| Lower explosion limit | not determined | | | | |
| Upper explosion limit | not determined | | | | |
| Vapour pressure | not determined | | | | |
| Relative density | 0,97 - 1,01 g/ cm ³ | 20 °C | | | |
| Vapour density | not determined | | | | |
| Solubility in water | | | | | insoluble |
| Solubility/other | not determined | | | | |
| Partition coefficient n- octanol/water (log P O/W) | not determined | | | | |
| Decomposition temperature | not determined | | | | |
| Viscosity dynamic | not determined | | | | |
| Viscosity kinematic | > 0,4 | 40 °C | | | |
| Solvent content | 50,7 % | | | | |

**Oxidising properties**

No information available.

Explosive properties

No information available.

9.2. Other information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

Reactions with oxidising agents.

Reactions with reducing agents.

If heating up polymerisation.

10.4. Conditions to avoid

Keep away from heat.

Evolution of heat.

10.5. Incompatible materials**Substances to avoid**

Oxidising agent, strong

Reducing agent, strong

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Nitrous oxides (NO_x)

Toxic gases/vapours

Metaloxides

Thermal decomposition

Remark No decomposition if used as directed.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity/Irritation/Sensitization**

| | Value/Validation | Species | Method | Remark |
|------------------------------|------------------|---------|--------|-----------------|
| LD50 acute oral | 97023 mg/kg | | | ATE |
| LD50 acute dermal | 65880 mg/kg | | | ATE |
| LC50 acute inhalation | > 200 mg/l (4 h) | rat | | CAS: 27138-31-4 |
| Skin irritation | irritant | | | |



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Easy-Mix RK-7000 Hardener

| | Value/Validation | Species | Method | Remark |
|---------------------------|---------------------------------|---------|--------|--------|
| Eye irritation | low irritant - no labeling duty | | | |
| Skin sensitization | sensitizing | | | |

Subacute Toxicity - Carcinogenicity

| | Value | Species | Method | Validation |
|------------------------------|--|---------|--------|---|
| Chronic Toxicity | NOAEL 1000 mg/kg (90 d) Repeated Dose 90-Day Oral Toxicity Study in Rodents | | | - |
| Mutagenicity | | | | No experimental information on genotoxicity in vivo available. |
| Reproduction-Toxicity | | | | No indications of toxic effects were observed in reproduction studies in animals. |
| Carcinogenicity | | | | No indications of carcinogenic effects are available from long-term trials. |

Experiences made from practice

Often and long skin contact may cause degreasing and desiccation of the skin which may cause skin irritation.
Sensitization through skin contact possible.
Irritates mucous membranes.

Additional information

The product is to be handled with the caution usual with chemicals.
Other hazardous properties may not be excluded.
The product has not been tested. The information is derived from the properties of the individual components.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

| | Value | Species | Method | Validation |
|----------------|------------------------------|---------------------|--------|-----------------|
| Fish | LC50 130000 Mikro-g/l (96 h) | Pimephales promelas | | CAS: 80-62-6 |
| Daphnia | EC 50 19,3 mg/l (48 h) | Daphnia magna | | CAS: 27138-31-4 |
| Algae | EC50 4,9 mg/l (72 h) | Green algae | | CAS: 27138-31-4 |

12.2. Persistence and degradability

| | Elimination rate | Method of analysis | Method | Validation |
|----------------------|--------------------------------|--------------------|--------|--------------------|
| Degradability | 87 % (28 d) CAS: 27138-31-4 | | | readily degradable |

12.3. Bioaccumulative potential

The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

12.4. Mobility in soil



No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

General regulation

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into the ground water or aquatic environment.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

The ecotoxic effect of the product has not been tested. The information on this is given on the basis of details in the literature.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations for the product

Remove in accordance with local official regulations.

Dispose of as hazardous waste.

Recommendations for packaging

Dispose of according to the local waste regulations.

General information

Assignment to a waste code number / waste identification according to the EWC is to be carried out on a sector or process-specific basis.

SECTION 14: Transport information

| | ADR/RID | IMDG | IATA-DGR |
|----------------------------------|-----------|-----------|-----------|
| 14.1. UN number | 1133 | 1133 | 1133 |
| 14.2. UN proper shipping name | ADHESIVES | ADHESIVES | Adhesives |
| 14.3. Transport hazard class(es) | 3 | 3 | 3 |
| 14.4. Packing group | II | II | II |
| 14.5. Environmental hazards | No | No | No |

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not applicable

Land and inland navigation transport ADR/RID

Hazard label(s) 3

tunnel restriction code D/E

Special provisions 640D

Classification code F1



SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC standard

| | |
|-------------|------------|
| VOC content | 50,7 % |
| VOC value | ca.510 g/L |

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.
For industrial use only.

Further information

Each user is responsible for the implementation of the national special regulations.
The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.
Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 8.9

| | |
|------------------|---|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302, | -?- |
| H31 8 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |