SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Name of product

Easy-Mix RK-7100 Adhesive
Code-Nr. 105661

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

Recommended intended purpose(s)
2-Component- Structural Adhesive Adhesive 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 Corr. 1B	**H314**	
Eye Dam. 1		
Skin Sens. 1	**H317**	
STOT SE 3	**H335**	
Aquatic Chronic 3	**H412**	

Hazard Statements

H225 Highly flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

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

GHS02 GHS05 GHS07

Signal word
Danger

Hazard Statements

H225	Highly flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

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.
P260	Do not breathe vapours/spray.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
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.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
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
colophony, maleic acid, methacrylic acid, methyl methacrylate

2.3. Other hazards

Information pertaining to special dangers for human and environment
Causes burns.

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
! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
80-15-9	201-254-7	alpha,alpha-dimethylbenzyl hydroperoxide	<= 1	Org. Perox. E, H242 / Acute Tox. 3, H331 / Acute Tox. 4, H312 / Acute Tox. 4, H302 / STOT RE 2, H373 / Skin Corr. 1B, H314 / Aquatic Chronic 2, H411
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
98-82-8	202-704-5	cumene	< 0,1	Flam. Liq. 3, H226 / Asp. Tox. 1, H304 / STOT SE 3, H335 / Aquatic Chronic 2, H411
110-16-7	203-742-5	maleic acid	<= 3	Acute Tox. 4, H302 / Eye Irrit. 2, H319 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Skin Sens. 1, H317
8050-09-7	232-475-7	colophony	< 3	Skin Sens. 1, H317
128-37-0	204-881-4	2,6-Di-tert.-butyl-p-cresol	< 1	Aqu. Acute 1, H400 M=1 / Aqu. Chronic 1, H410 M=1
79-41-4	201-204-4	methacrylic acid	<= 5	Acute Tox. 4, H302, H332 / Acute Tox. 3, H311 / Skin Corr. 1A, H314 / Eye Dam. 1, H318 / STOT SE 3, H335
28961-43-5	500-066-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid	< 1	Eye Irrit. 2, H319 / Skin Sens. 1B, H317
98-59-9	202-684-8	tosyl-chloride	< 1	Met. Corr. 1, H290 / Skin Irrit. 2, H315 / Eye Dam. 1, H318 / Skin Sens. 1A, H317

REACH

CAS No	Name	REACH registration number
80-15-9	alpha,alpha-dimethylbenzyl hydroperoxide	01-2119475796-19
80-62-6	methyl methacrylate	01-2119452498-28
98-82-8	cumene	01-2119473983-24
110-16-7	maleic acid	01-2119488705-25
8050-09-7	colophony	01-2119480418-32
128-37-0	2,6-Di-tert.-butyl-p-cresol	01-2119555270-46
79-41-4	methacrylic acid	01-2119463884-26
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid	01-2119489900-30
98-59-9	tosyl-chloride	01-2119971273-36

SECTION 4: First aid measures

4.1. Description of first aid measures
General information
Remove contaminated soaked clothing immediately.

In case of inhalation
Remove the casualty into fresh air and keep him immobile.
Refer for medical treatment.

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

In case of eye contact
After eye contact, rinse opened eye for 15 minutes under running water. Transfer to hospital for specialist examination.

In case of ingestion
Do not induce vomiting.
Call for a doctor immediately.
Rinse out mouth and give plenty of water to drink.

4.2. Most important symptoms and effects, both acute and delayed
Physician's information / possible symptoms
vomiting
Respiratory complaints
Allergic symptoms
Skin burns
Confusion

Physician's information / possible dangers
allergic reactions
Causes serious eye damage.

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
May lead to formation of explosive/easily ignitable vapour air mixtures.
Danger of bursting
In case of fire formation of dangerous gases possible.
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

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.
Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.
Provide good room ventilation even at ground level (vapours are heavier than air).

General protective measures

Do not inhale vapours.
Avoid contact with eyes and skin

Hygiene measures

At work do not eat, drink, smoke or take drugs.
Remove soiled or soaked clothing immediately.
Work in rooms with good ventilation.
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.
Vapours can form an explosive mixture with air.
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 together with animal feedstuffs.
Do not store together with food.
Do not store together with oxidizing agents.
Do not store together with reducing 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/m3]	[ppm]		Remark
98-82-8	Cumene	8 hours Short-term	125 250	25 50		EH40/2005
128-37-0	2,6-Di-tert-butyl-p-cresol	8 hours	10			EH40/2005
79-41-4	Methacrylic acid	8 hours Short-term	72 143	20 40		EH40/2005
80-62-6	Methyl methacrylate	8 hours Short-term	208 416	50 100		EH40/2005
8050-09-7	Rosin-based solder flux fume	8 hours Short-term	0.05 0.15			EH40/2005
98-59-9	p-Toluenesulphonyl chloride	8 hours Short-term	 5			EH40/2005
79-41-4	methacrylic acid	8 hours Short-term	180 360	50 100	MAK	

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
80-62-6	methyl-methacrylate	8 hours Short-term		50 100	
98-82-8	cumene	8 hours Short-term	100 250	20 50	skin

DNEL-/PNEC-values
DNEL worker

CAS No	Substance name	Value	Code	Remark
128-37-0	2,6-Di-tert.-butyl-p-cresol	3,5 mg/kg bw/day	DNEL long-term inhalative (systemic)	
		0,5 mg/kg bw/day	DNEL long-term dermal (systemic)	
79-41-4	methacrylic acid	88 mg/m3	DNEL long-term inhalative (local)	
		4,25 mg/kg bw/day	DNEL long-term dermal (systemic)	
		29,6 mg/m3	DNEL long-term inhalative (systemic)	
8050-09-7	colophony	25 mg/kg bw/day	DNEL long-term dermal (systemic)	
		176,32 mg/m3	DNEL long-term inhalative (systemic)	

PNEC

CAS No	Substance name	Value	Code	Remark
128-37-0	2,6-Di-tert.-butyl-p-cresol	0,199 µg/l	PNEC aquatic, freshwater	
		0,0199 µg/l	PNEC aquatic, marine water	
		99,6 µg/l	PNEC sediment, freshwater	
		47,69 µg/l	PNEC soil, freshwater	
79-41-4	methacrylic acid	0,82 mg/l	PNEC aquatic, freshwater	
		0,82 mg/l	PNEC aquatic, marine water	
8050-09-7	colophony	108 mg/kg dw	PNEC sediment, freshwater	
		0,005 mg/l	PNEC aquatic, freshwater	
		0,0005 mg/l	PNEC aquatic, marine water	
		1000 mg/l	PNEC sewage treatment plant (STP)	
		21,4 mg/kg dw	PNEC soil, freshwater	
		10,8 mg/kg dw	PNEC sediment, marine water	

! **Additional advice**
The statutory local and national regulations have to be observed.

8.2. Exposure controls
Respiratory protection
In case of insufficient ventilation or long-term effect use breathing apparatus.
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.
Glove material specification [make/type, thickness, permeation time/life, wetting resistance]:: Nitrile rubber; 0,4mm; 480min;60min.
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	Colour	Odour
liquid	whitish	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	11 °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	1 - 1,03 g/cm3	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	> 0,04 mm2/s	40 °C			
Solvent content	63 %				

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
The product is chemically stable under recommended conditions of storage, use and temperature.

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.
Toxic gases/vapours

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	> 17072,1 mg/kg			ATE
LD50 acute dermal	> 10264,6 mg/kg			ATE
LC50 acute inhalation	> 276,6 mg/l ()		dust/mist	ATE
Skin irritation	corrosive			
Eye irritation	corrosive			
Skin sensitization	sensitizing			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Chronic Toxicity	NOAEL 300 ppm (90 d) Repeated Dose 90-Day Oral Toxicity Study in Rodents		CAS: 110-16-7	-

	Value	Species	Method	Validation
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
May cause vomiting.
Corrosive effect on skin and mucous membrane.
Long-term skin contact with vapours may cause skin irritation or sensitization.
Causes corrosions.
Risk of strong eye injuries.
Irritates respiratory tract.

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	EC50 > 130 mg/l (48 h)	Daphnia magna		CAS: 79-41-4
Algae	EC50 45 mg/l (96 h)	Green algae		CAS: 79-41-4

12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Biological degradability	64 % (28 d) CAS: 8050-09-7			Moderately/partially biodegradable
Degradability	86 % (28 d) CAS: 79-41-4			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

Additional ecological information

	Value	Method	Remark
AOX	The product contains organically bound halogen in accordance with the formulation. It can contribute to the adsorbable organic halogen value in the effluent from sewage treatment plants.		

General regulation
Harmful to aquatic life with long lasting effects.
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.
Packaging that cannot be cleaned should be disposed of like the product.

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	III	III	III
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 640E
Classification code F1

! **Transport/further information**
Marine pollutant: NO

! SECTION 15: Regulatory information

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

VOC standard

VOC content	63 %
VOC value	ca.630 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: 2.3

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H302, H304	-?-
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.