

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

Name of product Easy-Mix PU-90 Adhesive
Code-Nr. 107511

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

Two-component polyurethane adhesives - curing 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
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Acute Tox. 4	H332	
Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
Resp. Sens. 1	H334	
Skin Sens. 1	H317	
Carc. 2	H351	
STOT SE 3	H335	

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

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

STOT RE 2

H373

Hazard Statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS07



GHS08

Signal word

Danger

Hazard Statements

H315	Causes skin irritation.
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Precautionary Statements

P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe 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.
P281	Use personal protective equipment as required.
P285	In case of inadequate ventilation wear respiratory protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304 + P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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P332 + P313	If skin irritation occurs: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P362	Take off contaminated clothing.
P363	Wash contaminated clothing before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to hazardous or special waste collection point.

Hazardous ingredients for labeling

4,4'-methylenediphenyl diisocyanate, diphenylmethanediisocyanate, isomere, homologue and mixtures, 4,4'-Methylenediphenyl diisocyanate, oligomers

Special rules for supplemental label elements for certain mixtures

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

Contains isocyanates. May produce an allergic reaction.

Additional information

Remark

For industrial use only.

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

Adhesive basing on polyurethane

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
101-68-8	202-966-0	4,4'-methylenediphenyl diisocyanate	5 - 10	Carc. 2, H351 / Acute Tox. 4, H332 / STOT RE 2, H373 / Eye Irrit. 2, H319 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Resp. Sens. 1, H334 / Skin Sens. 1, H317
9016-87-9		diphenylmethanediisocyanate, isomere, homologue and mixtures	10 - 20	Acute Tox. 4, H332 / Eye Irrit. 2, H319 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Resp. Sens. 1, H334 / Skin Sens. 1, H317 / Carc. 2, H351 / STOT RE 2, H373
25686-28-6	500-040-3	4,4' Methylendiphenyldiisocyanat, Oligomere	10 - 20	Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Eye Irrit. 2, H319 / Acute Tox. 4, H332 / Resp. Sens. 1, H334 / STOT SE 3, H335 / Carc. 2, H351 / STOT RE 2, H373

**REACH**

CAS No	Name	REACH registration number
101-68-8	4,4'-methylenediphenyl diisocyanate	01-2119457014-47
25686-28-6	4,4' Methylenediphenyldiisocyanat, Oligomere	01-2119457013-49

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

Remove contaminated soaked clothing immediately and dispose it safely.

In case of inhalation

Remove the casualty into fresh air and keep him immobile.

Seek medical treatment immediately.

In case of respiratory standstill give artificial respiration by respirator and send for a doctor.

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**

Headache

Asthmatic complaints

Allergic symptoms

Nausea

skin irritation

Physician's information / possible dangers

asthmatic symptoms

allergic reactions

4.3. Indication of any immediate medical attention and special treatment needed**Treatment (Advice to doctor)**

Keep under medical supervision for at least 48 hours.

Symptoms may not occur until several hours.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam

Dry powder

Carbon dioxide

Water spray jet

Unsuitable extinguishing media

Full water jet



5.2. Special hazards arising from the substance or mixture

Danger of bursting

In case of fire formation of dangerous gases possible.

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Hydrogen cyanide (HCN)

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.

High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

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

Collect contaminated water / firefighting water separately.

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

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

After taking up the material dispose according to regulation.

Take up mechanically.

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

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

Take the usual precautions when handling with chemicals.

General protective measures

Do not inhale vapours.

Avoid contact with eyes and skin

Hygiene measures

At work do not eat, drink and smoke.

Storing of food in workroom forbidden.



Wash hands before breaks and after work.

Advice on protection against fire and explosion

Pay attention to general rules of internal fire prevention.

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

Prevent penetration into the ground.

Advice on storage compatibility

Do not store with acids or alkalis.

Do not store together with animal feedstuffs.

Do not store together with food.

Keep away from water.

Further information on storage conditions

Store only in closed original container at cool and aired place.

Store only in original container at temperature of 50°C maximum (=122°F).

Protect from frost.

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****DNEL-/PNEC-values****DNEL worker**

CAS No	Substance name	Value	Code	Remark
101-68-8	4,4'-methylenediphenyl diisocyanate	0,05 mg/m ³	DNEL long-term inhalative (local)	
		50 mg/kg bw/day	DNEL acute dermal, short-term (systemic)	
		28,7 mg/cm ²	DNEL acute dermal, short-term (local)	
		0,05 mg/m ³	DNEL long-term inhalative (systemic)	
		0,1 mg/m ³	DNEL acute inhalative (systemic)	
		0,1 mg/m ³	DNEL long-term oral (repeated)	
25686-28-6	4,4' Methylendiphenyldiisocyanat, Oligomere	0,05 mg/m ³	DNEL long-term inhalative (local)	
		0,05 mg/m ³	DNEL long-term inhalative (systemic)	
		0,1 mg/m ³	DNEL acute inhalative (systemic)	
		28,7 mg/cm ³	DNEL acute dermal, short-term (local)	
		50 mg/kg bw/day	DNEL acute dermal, short-term (systemic)	
		0,1 mg/m ³	DNEL acute inhalative (local)	
9016-87-9	diphenylmethanediisocyanate, isomere, homologe and mixtures	0,287 mg/m ³	DNEL acute dermal, short-term (local)	

**DNEL-/PNEC-values (continued)**

CAS No	Substance name	Value	Code	Remark
		0,1 mg/m ³	DNEL acute inhalative (systemic)	
		0,05 mg/m ³	DNEL long-term inhalative (systemic)	
		0,05 mg/m ³	DNEL long-term inhalative (local)	
		50 mg/kg	DNEL acute dermal, short-term (systemic)	

PNEC

CAS No	Substance name	Value	Code	Remark
25686-28-6	4,4' Methylendiphenyldiisocyanat, Oligomere	1 mg/l	PNEC aquatic, freshwater	
		0,1 mg/l	PNEC sewage treatment plant (STP)	
		0,1 mg/l	PNEC aquatic, marine water	
9016-87-9	diphenylmethanediisocyanate, isomere, homologue and mixtures	1001 mg/kg	PNEC soil, freshwater	

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 A2/P2, otherwise environment-independent breathing apparatus.

! Hand protection

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Neopren; 480min.

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]: fluorinated rubber; 0,7mm; 480min; 60min;

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

black

Odour

hardly noticeable

Odour threshold



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not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not applicable				
boiling point	not determined				
melting point	not determined				
Flash point	not determined				
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	1,28 g/cm ³	20 °C			
Bulk density	not applicable				
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	ca. 60000 mPa*s				thixotropic
Oxidising properties	no				
Explosive properties	no				

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

Exothermic reaction with alcohols and amines.

Reactions with water.

Reactions with alcohols.

Reactions with alkalies, amines and strong acids.

10.4. Conditions to avoid

Moisture.

If heating up polymerisation.

10.5. Incompatible materials

Substances to avoid

Alkali (lye)

Amines

Acid

Water

10.6. Hazardous decomposition products

Hydrogen cyanide (hydrocyanic acid)

Carbon monoxide and carbon dioxide.

Nitrous oxides (NOx)

Hydrocarbons

Nitriles

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	> 2000 mg/kg	rat	EEC 84/449, B.1	CAS: 101-68-8
LD50 acute dermal	> 2000 mg/kg	rabbit	OECD 402	CAS: 9016-87-9
LC50 acute inhalation	4,29 mg/l (4 h)		Aerosol	ATE
Skin irritation	irritant	rabbit		
Eye irritation	strong irritant	rabbit eye		
Skin sensitization	sensitizing			



	Value/Validation	Species	Method	Remark
Sensitization respiratory system	sensitizing			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Reproduction-Toxicity	NOAEL (F1) 0,004 mg/l CAS: 101-68-8	Rat	OECD 414 (Equivalent)	Indications of toxic effects are available from reproduction studies in animals.
Carcinogenicity		CAS: 9016-87-9	OECD 453 Combined Chronic Toxicity/ Carcinogenicity Studies	Indications of possible carcinogenic effects in animal studies are available.

Specific target organ toxicity (repeated exposure)

May cause damage to organs, if longer exposed.

! Experiences made from practice

May cause cancer.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Sensitization through inhalation possible.

Sensitization through skin contact possible.

Allergic reactions possible (analogy-reasons).

Irritates respiratory tract.

Irritates mucous membranes.

Irritates eyes and skin.

Additional information

The product is to be handled with the caution usual with chemicals.

Other hazardous properties may not be excluded.

! SECTION 12: Ecological information**12.1. Toxicity****Ecotoxicological effects**

	Value	Species	Method	Validation
Fish	LC50 > 1000 mg/l (96 h)	Brachidanio rerio	OECD 203	CAS: 101-68-8
Daphnia	EC50 > 1000 mg/l (24 h)	Daphnia magna	OECD 202	CAS: 101-68-8
Algae	EC50 > 1640 mg/l (72 h)	No data available	OECD 201	CAS: 25686-28-6
Bacteria	EC50 > 100 mg/l (3 h)	No data available	OECD 209	CAS: 25686-28-6

12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Biological degradability	0 % (28 d)		OECD 302 C	not degradable

12.3. Bioaccumulative potential



Because of its consistency the product cannot be dispersed in the environment. Adverse ecological effects are therefore unlikely on the basis of current knowledge.

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			Product can contain organically bound halogen and contribute to the adsorbable organic halogen value.

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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No.

08 04 09*

Name of waste

waste adhesives and sealants containing organic solvents or other hazardous substances

08 05 01*

waste isocyanates

15 01 10*

packaging containing residues of or contaminated by hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

Recommendations for the product

Remove in accordance with local official regulations.

Recommendations for packaging

Uncontaminated packaging may be reused.

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	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-



ADR/RID	IMDG	IATA-DGR
14.5. Environmental hazards -	-	-

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

Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

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 0 %

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: 1.6

H315	Causes skin irritation.
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H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
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).