

No. 1907/2006 (REACH)
Printed 13.07.2018

revision 10.07.2018 (GB) Version 1.2

Plastic-Bond Hardener

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

1.1. Product identifier

Name of product Plastic-Bond Hardener
Code-Nr. 105654

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 Hazard Statements Classification procedure categories

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.



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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 + IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

P353 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

Special rules for supplemental label elements for certain mixtures

Contains isocyanates. May produce an allergic reaction.

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.



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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
34590-94-8	252-104-2	(2-methoxymethylethoxy)-propanol	< 0,1	,
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
REACH				
CAS No	Name			REACH registration number
80-62-6	methyl metha	acrylate		01-2119452498-28
27138-31-4	Oxydipropyld	libenzoat		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-	-nronanol		01-2119457435-35

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



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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.



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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/m3]	[ppm]	Remark
34590-94-8	(2-Methoxymethylethoxy) propanol	8 hours	308	50	EH40/2005
107-98-2	1 -Methoxypropan-2-ol	8 hours Short-term	375 560	100 150	EH40/2005
80-62-6	Methyl methacrylate	8 hours Short-term	208 416	50 100	EH40/2005



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Ingredients with occupational exposure limits to be monitored (continued)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
80-62-6	Metacrilato de metilo	8 hours	208	50	
		Short-term	416	100	

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	
34590-94-8	(2-methoxymethylethoxy)-propanol	8 hours	308	50	skin
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	8,8 mg/m3	DNEL long-term inhalative (systemic)	
		170 mg/kg bw/day	DNEL acute dermal, short-term (systemic)	
		10 mg/kg bw/day	DNEL long-term dermal (systemic)	
PNEC				

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



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

AppearanceColourOdourpastywhitishpungent

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/ 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	> 0,4	40 °C			
Solvent content	50,7 %				



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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.

Nitrous oxides (NOx)

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	97029,3 mg/kg			ATE
LD50 acute dermal	65884,1 mg/kg			ATE
LC50 acute inhalation	> 200 mg/l (4 h)	rat		CAS: 27138-31-4
Skin irritation	irritant			



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Method

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Value/Validation Species Method Remark

Eye irritation low irritant - no labeling

duty

Value

Skin sensitization sensitizing

Subacute Toxicity - Carcinogenicity

Chronic Toxicity	NOAEL 1000 mg/kg (90 d) Repeated Dose 90-Day Oral Toxicity Study in Rodents	-
Mutagenicity		No experimental information on

Species

ReproductionToxicity

No indications of toxic effects were observed in reproduction studies in

animals.

Validation

Carcinogenicity

No indications of carcinogenic effects are available from long-term

Hecis are available Horri lo

genotoxicity in vivo available.

trials.

Experiences made from practice

Often and long skin contact may cause degreasing and desiccation of the skin which may caus skin irritation.

Sensitization through skin contact possible.

Irritates mucous membranes.

Additional information

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

CAS: 27138-31-4

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 pro	melas	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. Persiste	ence and degradability Elimination rate	Method of analysis	Method	Validation	
Degradability	87 % (28 d)			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



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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



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! 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 EUdirectives, 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: 1.1

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302,	-?-
H318	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.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.