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

1.1. Product identifier

Name of product

Plastic-Bond Resin
Code-Nr. 105653

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 Irrit. 2	**H315**	
Eye Dam. 1	**H318**	
Skin Sens. 1	**H317**	
STOT SE 3	**H335**	
Aquatic Chronic 3	**H412**	

Hazard Statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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.
P261	Avoid breathing 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.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.
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.
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.
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
colophony, maleic acid, methacrylic acid, methyl methacrylate

Special rules for supplemental label elements for certain mixtures
Contains Colophony. 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.

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]
80-62-6	201-297-1	methyl methacrylate	50 < 75	Flam. Liq. 2, H225 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Skin Sens. 1, H317
110-16-7	203-742-5	maleic acid	1 < 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	1 < 3	Skin Sens. 1, H317
80-15-9	201-254-7	cumene hydroperoxide	< 0,95	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
128-37-0	204-881-4	2,6-Di-tert.-butyl-p-cresol	0,3 < 1	Aqu. Acute 1, H400 M=1 / Aqu. Chronic 1, H410 M=1
79-41-4	201-204-4	methacrylic acid	3 < 5	Acute Tox. 4, H302, H332 / Acute Tox. 3, H311 / Skin Corr. 1A, H314 / Eye Dam. 1, H318 / STOT SE 3, H335

REACH

CAS No	Name	REACH registration number
80-62-6	methyl methacrylate	01-2119452498-28
110-16-7	maleic acid	01-2119488705-25
8050-09-7	colophony	01-2119480418-32
80-15-9	cumene hydroperoxide	01-2119475796-19
128-37-0	2,6-Di-tert.-butyl-p-cresol	01-2119555270-46
79-41-4	methacrylic acid	01-2119463884-26

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.
Consult a doctor if skin irritation persists.

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.
If swallowed give water to drink.

4.2. Most important symptoms and effects, both acute and delayed
Physician's information / possible symptoms
Stomache -ache
Nausea
Gastrointestinal complaints
skin irritation

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

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.

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
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.

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.

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.
Open and handle container with care!

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.

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 combustible materials.
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 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
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
98-83-9	2-Phenylpropene	8 hours Short-term	246 491	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

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	

DNEL-/PNEC-values
DNEL worker

CAS No	Substance name	Value	Code	Remark
128-37-0	2,6-Di-tert.-butyl-p-cresol	0,5 mg/kg bw/day	DNEL long-term dermal (systemic)	
		3,5 mg/kg bw/day	DNEL long-term inhalative (systemic)	
79-41-4	methacrylic acid	88 mg/m3	DNEL long-term inhalative (local)	
		29,6 mg/m3	DNEL long-term inhalative (systemic)	
		4,25 mg/kg bw/day	DNEL long-term dermal (systemic)	
80-15-9	cumene hydroperoxide	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	99,6 µg/l	PNEC sediment, freshwater	
		0,199 µg/l	PNEC aquatic, freshwater	
		0,0199 µg/l	PNEC aquatic, marine water	

DNEL-/PNEC-values (continued)

CAS No	Substance name	Value	Code	Remark
		47,69 µg/l	PNEC soil, freshwater	
79-41-4	methacrylic acid	0,82 mg/l	PNEC aquatic, marine water	
		0,82 mg/l	PNEC aquatic, freshwater	
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
If ventilation insufficient, wear 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
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.
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.

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
pasty	light grey	pungent

Odour threshold
not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				

	Value	Temperature	at	Method	Remark
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	ca. 1 g/cm3	25 °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 kinematic	> 40 mm2/s	40 °C			
Viscosity dynamic	not determined				

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 acids, alkalies and oxidising agents.
If heating up polymerisation.

10.4. Conditions to avoid
Keep away from heat.

10.5. Incompatible materials
Substances to avoid
Alkali (lye), concentrated
Acid, concentrated
Oxidising agent, strong

10.6. Hazardous decomposition products
Carbon monoxide and carbon dioxide.
Halogen hydrocarbons
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	> 5000			ATE
LD50 acute dermal	> 5000			ATE
LC50 acute inhalation	> 50 ()		dust/mist	ATE
Skin irritation	irritant			
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: 79-41-4			-
Mutagenicity				No experimental information on genotoxicity in vitro available.
Reproduction-Toxicity				No indications of toxic effects were observed in reproduction studies in animals.

	Value	Species	Method	Validation
Carcinogenicity				No indications of carcinogenic effects are available from long-term trials.

Experiences made from practice
Sensitization through skin contact possible.
Risk of strong eye injuries.
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.
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 85 mg/l (96 h)	Fish		CAS: 79-41-4
Daphnia	EC50 1440 Mikro-g/l (48 h)	Daphnia pulex		CAS: 128-37-0
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	86 % (28 d) CAS: 79-41-4			readily degradable
Degradability	64 % (28 d) CAS: 8050-09-7			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	Product can contain organically bound halogen and contribute to the adsorbable organic halogen value.		

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.

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 (Methyl-methacrylat, Methacrylacid)	ADHESIVES (Methyl-methacrylat, Methacrylacid)	Adhesives (Methyl-methacrylat, Methacrylacid)
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

! 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: 1.1

H225	Highly flammable liquid and vapour.
H242	Heating may cause a fire.
H302	Harmful if swallowed.
H302,	-?-
H312	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.