



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

1.1. Product identifier

Name of product Easy-Mix Metal Hardener
Code-Nr. 106532

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]

Additional hints

This mixture is not classified as hazardous according to Regulation (EC) 1272/2008 [GHS].

2.2. Label elements

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

Special rules for supplemental label elements for certain mixtures

Safety data sheet available on request.

2.3. Other hazards

**Information pertaining to special dangers for human and environment**

Although this product is not subject to reporting requirements for hazardous products, we recommend compliance with the safety recommendations.

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**

Hardener for a 2-component epoxy adhesive

! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
90-72-2	202-013-9	2,4,6-tris(dimethylaminomethyl)phenol	1 < 10	Acute Tox. 4, H302 / Eye Irrit. 2, H319 / Skin Irrit. 2, H315
14807-96-6	238-877-9	talcum (Mg ₃ H ₂ (SiO ₃) ₄)	1 - 10	
763-69-9	212-112-9	Propionsäure-3-ethoxyethylester	1 - 10	Flam. Liq. 3, H226
7727-43-7	231-784-4	barium sulphate, natural	10 - 30	
13463-67-7	236-675-5	titanium-dioxide	1 - 10	
1317-65-3		Limestone	30 - 50	
546-93-0	208-915-9	Magnesium Carbonat	1 - 10	

REACH

CAS No	Name	REACH registration number
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	01-2119560597-27
14807-96-6	talcum (Mg ₃ H ₂ (SiO ₃) ₄)	01-2120140278-58
763-69-9	Propionsäure-3-ethoxyethylester	01-2119463267-34
7727-43-7	barium sulphate, natural	01-2119491274-35
13463-67-7	titanium-dioxide	01-2119489379-17
1317-65-3	Limestone	not subject to registration
546-93-0	Magnesium Carbonat	01-2119523999-20

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

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 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.

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

Coughing
vomiting
Respiratory complaints
Headache
Nausea
skin irritation

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

Alcohol-resistant foam
Dry fire-extinguishing substance
Carbon dioxide
Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

Carbon monoxide (CO)
Carbon dioxide (CO₂)
Sulphur dioxide (SO₂)

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.

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

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
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, sawdust, general-purpose binder).
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

Avoid formation of aerosols.

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 and smoke.

Remove soiled or soaked clothing immediately.

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

Keep in closed original container.

Advice on storage compatibility

Do not store with acids.

Do not store together with animal feedstuffs.

Do not store together with food.

Further information on storage conditions

Store at +5 till +25 °C.

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

Protect from frost.

Protect from heat and direct solar radiation.

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
7727-43-7	Barium sulphate: respirable dust	8 hours	4		EH40/2005
7727-43-7	Barium sulphate: total inhalable dust	8 hours	10		EH40/2005
1317-65-3	Calcium carbonate: total inhalable dust	8 hours	10		EH40/2005
1317-65-3	Calcium carbonate: respirable dust	8 hours	4		EH40/2005
1317-65-3	Limestone: total inhalable	8 hours	10		EH40/2005
1317-65-3	Limestone: respirable	8 hours	4		EH40/2005
546-93-0	Magnesite: total inhalable dust	8 hours	10		EH40/2005
546-93-0	Magnesite: respirable dust	8 hours	4		EH40/2005
1317-65-3	Marble: total inhalable dust	8 hours	10		EH40/2005
1317-65-3	Marble: respirable dust	8 hours	4		EH40/2005



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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Easy-Mix Metal Hardener**Ingredients with occupational exposure limits to be monitored (continued)**

CAS No	Name	Code	[mg/m ³]	[ppm]	Remark
14807-96-6	Talc respirable dust	8 hours	1		EH40/2005
13463-67-7	Titanium dioxide: total inhalable dust	8 hours	10		EH40/2005
13463-67-7	Titanium dioxide: respirable dust	8 hours	4		EH40/2005

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

CAS No	Substance name	Value	Code	Remark
13463-67-7	titanium-dioxide	10 mg/m ³	DNEL long-term inhalative (systemic)	
763-69-9	Propionsäure-3-ethoxyethylester	4 mg/m ³	DNEL long-term inhalative (systemic)	
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	0,31 mg/m ³	DNEL long-term inhalative (systemic)	

PNEC

CAS No	Substance name	Value	Code	Remark
13463-67-7	titanium-dioxide	0,127 mg/l	PNEC aquatic, freshwater	
		1000 mg/kg	PNEC sediment, marine water	
		1 mg/l	PNEC aquatic, marine water	
		100 mg/kg	PNEC sediment, freshwater	
		100 mg/l	PNEC sewage treatment plant (STP)	
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	0,0084 mg/l	PNEC aquatic, marine water	
		0,084 mg/l	PNEC aquatic, freshwater	
		0,2 mg/l	PNEC sewage treatment plant (STP)	

! Additional advice

The statutory local and national regulations have to be observed.

8.2. Exposure controls**! Respiratory protection**

Not required

If ventilation insufficient, wear respiratory protection.

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**

liquid

Colour

yellowish-white

Odour

similar to ammonia

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
Boiling temperature / boiling range	not determined				
Melting point / Freezing point	not determined				
Flash point	no				
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	< 0,01 hPa				
Relative density	ca. 1,7				
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	> 150 °C				
Viscosity	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

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

10.3. Possibility of hazardous reactions

Reactions with strong oxidising agents.

Reactions with amines.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials**Substances to avoid**

Amines

Oxidising agent, strong

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Toxic gases/vapours

Sulphurous oxides (SOx)

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	2169 mg/kg	rat		CAS: 90-72-2
LD50 acute dermal	> 1 ml/kg	rat		CAS: 90-72-2
Skin irritation	low irritant effect - not necessary to label			
Eye irritation	low irritant - no labeling duty			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
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Value	Species	Method	Validation
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 Frequent and / or prolonged contact may lead to skin irritation According to our experience and current information, the product has no detrimental effects on health if handled and used correctly			
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 175 mg/l (96 h)	Cyprinus carpio		CAS: 90-72-2
Daphnia	EC50 100 - 1000 mg/l (48 h)	Daphnia magna		Titandioxid
Algae	EC50 > 100 mg/l (72 h)	Pseudokirchneriella subcapitata		Titandioxid

12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Biological degradability				not degradable

12.3. Bioaccumulative potential

No information available.

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 aquatic environment.



! SECTION 13: Disposal considerations

13.1. Waste treatment methods

! Waste code No.	Name of waste
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
15 01 02	plastic packaging

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

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	-	-	-
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.		

! 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: 8.4

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.