

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

Name of product Easy-Mix N 50 Hardener
Code-Nr. 106512

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 categories	Hazard Statements	Classification procedure
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Skin Corr. 1B	H314	
Eye Dam. 1		
Skin Sens. 1	H317	
Repr. 2	H361f	
Aquatic Chronic 2	H411	

Hazard Statements

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361f	Suspected of damaging fertility.

H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

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



GHS05



GHS07



GHS08



GHS09

Signal word

Danger

Hazard Statements

H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H361f Suspected of damaging fertility.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P102 Keep out of reach of children.
 P201 Obtain special instructions before use.
 P261 Avoid breathing 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.
 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 water.
 P308 + P313 IF exposed or concerned: Get medical advice/attention.
 P310 Immediately call a POISON CENTER or doctor/physician.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
 P362 + P364 Take off contaminated clothing and wash it before reuse.
 P405 Store locked up.
 P501 Dispose of contents/container to hazardous or special waste collection point.

Hazardous ingredients for labeling

4-tert-butylphenol, Amines, polyethylenepoly-, triethylenetetramine fraction, Phenol, styrenated, Polyoxypropyldiamin

2.3. Other hazards

Information pertaining to special dangers for human and environment

Causes severe burns.
 Risk of serious damage to eyes.

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 (formulated polyaminoamide containing 3-aminopropyl dimethylamine).

! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
100-51-6	202-859-9	benzyl-alcohol	1 < 10	Acute Tox. 4, H332 / Acute Tox. 4, H302
98-54-4	202-679-0	4-tert-butylphenol	1 < 10	Repr. 2, H361f / Skin Irrit. 2, H315 / Eye Dam. 1, H318
61788-44-1	262-975-0	Phenol, styrenated	30 - 50	Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Aquatic Chronic 2, H411
90640-67-8	292-588-2	Amines, polyethylenepoly-, triethylenetetramine fraction	1 < 10	Acute Tox. 4, H312 / Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Eye Dam. 1, H318 / Aquatic Chronic 3, H412
9046-10-0		Polyoxypropylendiamin	< 1	Skin Corr. 1B, H314 / Eye Dam. 1, H318 / Aquatic Chronic 3, H412

REACH

CAS No	Name	REACH registration number
100-51-6	benzyl-alcohol	01-2119492630-38
98-54-4	4-tert-butylphenol	01-2119489419-21
61788-44-1	Phenol, styrenated	01-2119980970-27
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	01-2119487919-13
9046-10-0	Polyoxypropylendiamin	01-2119557899-12

Additional advice

SVHC Candidate: CAS 98-54-4

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.

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.

Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.

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



Skin burns
Nausea
skin irritation

Physician's information / possible dangers

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.

Symptoms may not occur until several hours.

! SECTION 5: Firefighting measures

5.1. Extinguishing media

! Suitable extinguishing media

Fire-extinguishing activities according to surrounding.

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)

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

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.

Remove persons to safety.

Use personal protective clothing.

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 seep away runed out product into ground or body of water.

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, kieselguhr, acid binder, general-purpose binder, sawdust).

Send in suitable containers for recovery or disposal.

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.

Open and handle container with care!

General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin.

Hygiene measures

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Work in rooms with good ventilation.

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.

Provide floor with bunding.

Advice on storage compatibility

Do not store with oxidizing agents.

Do not store together with animal feedstuffs.

Do not store together with food.

Do not store together with acids.

Further information on storage conditions

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

Protect from heat and direct solar radiation.

Store at 5 to 40°C (=41 to 104°F).

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

! Additional advice

The statutory local and national regulations have to be observed.

8.2. Exposure controls

! Respiratory protection

If ventilation insufficient, wear respiratory protection.

Breathing apparatus in the event of aerosol or mist formation.

Short term: filter apparatus, combination filter A-P1

**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

characteristic

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
boiling point	> 200 °C				
melting point	not determined				
Flash point	> 93 °C				
Vapourisation rate	not determined				
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	> 200 °C				estimate
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	ca. 1 g/cm ³				
Vapour density	not determined				
Solubility in water					soluble



	Value	Temperature	at	Method	Remark
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	not determined				
Oxidising properties No information available.					
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

Reactions with strong acids.

Reactions with strong oxidising agents.

10.4. Conditions to avoid

Thermal decomposition can lead to the escape of irritating gases and vapours.

Keep away from heat.

10.5. Incompatible materials

Substances to avoid

Acid, concentrated

Oxidising agent, strong

10.6. Hazardous decomposition products

Gases/vapours, toxic

Carbon monoxide and carbon dioxide.

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	> 15 mg/l ()		dust/mist	ATE
Skin irritation	corrosive			
Eye irritation	corrosive			
Skin sensitization	sensitizing			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Mutagenicity				No experimental information on genotoxicity in vitro available.
Reproduction-Toxicity				Indications of toxic effects are available from reproduction studies in animals.
Carcinogenicity				No indications of carcinogenic effects are available from long-term trials.

Toxicity test (Additional information)

Indications of genotoxic effects at humans are available from reproduction studies in animals.

Experiences made from practice

Risk of strong health injuries in case of long-term exposition.

Corrosive effect on skin and mucous membrane.

Sensitization through skin contact possible.

Causes corrosions.

Risk of strong eye injuries.

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 products of similar composition.

SECTION 12: Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability



Elimination rate	Method of analysis	Method	Validation
Biological degradability			not degradable
12.3. Bioaccumulative potential Slight bioaccumulation potential.			
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 Toxic to aquatic life, fishes and plankton. Toxic 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

Waste code No.

08 04 10

Name of waste

waste adhesives and sealants other than those mentioned in 08 04 09

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.

Untampered packaging may be treated as household waste.

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	2735	2735	2735
14.2. UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (PHENOL, STYRENATED; TRIETHYLENETETRAMINE)	AMINES, LIQUID, CORROSIVE, N.O.S. (PHENOL, STYRENATED; TRIETHYLENETETRAMINE)	Amines, liquid, corrosive, n.o. s. (PHENOL, STYRENATED; TRIETHYLENETETRAMINE)
14.3. Transport hazard class(es)	8	8	8



	ADR/RID	IMDG	IATA-DGR
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14.4. Packing group

III

III

III

14.5. Environmental hazards

Yes

Yes

Yes

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) 8

tunnel restriction code E

Classification code C7

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** 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: 10.1

H302 Harmful if swallowed.

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.

H332 Harmful if inhaled.

H361f Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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Easy-Mix N 50 Hardener

H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.