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

1.1. Product identifier

Name of product

Easy-Mix N 5000 Hardener
Code-Nr. 106522

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
Acute Tox. 4	**H302**	
Skin Corr. 1B	**H314**	
Skin Sens. 1	**H317**	
Repr. 2	**H361fd**	
Aquatic Acute 1	**H400**	
Aquatic Chronic 1	**H410**	

Hazard Statements

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

H317	May cause an allergic skin reaction.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very 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

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H410	Very toxic to aquatic life with long lasting effects.

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.
P270	Do no eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
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.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container to hazardous or special waste collection point.

Hazardous ingredients for labeling
2-piperazin-1-ylethylamine, nonylphenol

2.3. Other hazards

! **Information pertaining to special dangers for human and environment**
Harmful if swallowed.
May impair fertility.

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-aminopropyldimethylamine).

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
140-31-8	205-411-0	2-piperazin-1-ylethylamine	10 - 30	Acute Tox. 4, H312 / Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412
84852-15-3	284-325-5	4-nonylphenol, branched	70 - 90	Repr. 2, H361fd / Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410

REACH

CAS No	Name	REACH registration number
140-31-8	2-piperazin-1-ylethylamine	01-2119471486-30
84852-15-3	4-nonylphenol, branched	01-2119510715-45

Additional advice
SVHC Candidate: CAS: 84852-15-3

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 skin contact
In case of contact with skin wash off immediately with soap and water.
Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.

In case of eye contact
May cause superficial burns.
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.
Give water to drink in small sips.
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
Stomache -ache
vomiting
Respiratory complaints
Skin burns
Nausea
Confusion

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)
If necessary, give oxygen.
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 fire-extinguishing substance
Carbon dioxide
Water spray jet

Unsuitable extinguishing media
Full water jet

5.2. Special hazards arising from the substance or mixture
Risk of formation of toxic pyrolyse products.
In case of fire formation of dangerous gases possible.
Phenoles
Ammonia
Carbon monoxide (CO)
Carbon dioxide (CO2)

5.3. Advice for firefighters
Special protective equipment for fire-fighters
Wear full protective clothing.
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.
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, 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
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 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

DNEL-/PNEC-values

DNEL worker

CAS No	Substance name	Value	Code	Remark
140-31-8	2-piperazin-1-ylethylamine	0,04 mg/cm2	DNEL acute dermal, short-term (local)	
		21,4 mg/m3	DNEL acute inhalative (systemic)	
		20 mg/kg bw/day	DNEL acute dermal, short-term (systemic)	

PNEC

CAS No	Substance name	Value	Code	Remark
140-31-8	2-piperazin-1-ylethylamine	0,058 mg/l	PNEC aquatic, freshwater	
		215 mg/kg	PNEC sediment, freshwater	
		21,5 mg/kg	PNEC sediment, marine water	
		250 mg/l	PNEC sewage treatment plant (STP)	
		0,0058 mg/l	PNEC aquatic, 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.

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	Colour	Odour
liquid	yellowish-white	similar to amine

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	8,5 - 11				
boiling point	> 200 °C				
Melting point / Freezing point	not determined				
Flash point	> 100 °C				
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature	not determined				
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	5 hPa	50 °C			
Relative density	0,98				
Vapour density	not determined				
Solubility in water					immiscible
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity kinematic	5500 mPa*s				
Viscosity dynamic	not determined				

Oxidising properties
No information available.

Explosive properties
The product is considered non-explosive ; nevertheless explosive vapour/air mixtures can be generated .

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 and alkalies.
Reactions with strong oxidising agents.
Reactions with halogenated compounds.
Reactions with alcohols.

10.4. Conditions to avoid
Keep away from heat.

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

10.6. Hazardous decomposition products
Amines
Gases/vapours, corrosive
Gases/vapours, toxic
Carbon monoxide and carbon dioxide.
Ammonia
Phenol

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	2,14 ml/kg	rat		CAS: 140-31-8
LD50 acute dermal	3160 mg/kg	rabbit		Calculated out of the components.
Skin irritation	corrosive			
Eye irritation	corrosive			
Skin sensitization	sensitizing			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Reproduction-Toxicity			Calculated out of the components.	

Experiences made from practice
Harmful to health by prolonged exposure.
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.

! 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 readily degradable

12.3. Bioaccumulative potential
No bioaccumulation

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
Very toxic to aquatic life with long lasting effects.
Even in the event of low quantities penetration into the underground drinking water is contaminated.
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.
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	2922	2922	2922
14.2. UN proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S. (Nonylphenol; 2-Piperazin-1-ylethylamin)	CORROSIVE LIQUID, TOXIC, N.O.S. (Nonylphenol; 2-Piperazin-1-ylethylamin)	Corrosive liquid, toxic, n.o.s. (Nonylphenol; 2-Piperazin-1-ylethylamin)
14.3. Transport hazard class(es)	8 (6.1)	8 (6.1)	8 (6.1)
14.4. Packing group	II	II	II
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+6.1
tunnel restriction code E
Classification code CT1

Marine transport IMDG
MARINE POLLUTANT

! 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: 8.8

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361fd	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).
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.