

**Urethane Hardener 45****! SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Name of product Urethane Hardener 45
Code-Nr. 105102

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
Postbox 48045, DE-8460 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
E-mail (competent person):
msds@weicon.de

1.4. Emergency telephone number

GIZ Bonn (German, English) Tel: ++49(0)228-19 240
TRANSPORT: Consultank Lutz Harder GmbH Tel: +49(0)178
433 7434 (24h Emergency Contact)

Manufacturer

WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster

1.4. Emergency telephone number**Emergency advice**

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Phone -
GIZ Bonn (Medizinische Auskunft in Deutsch und Englisch)
Tel: ++49(0)228-19 240
TRANSPORT: Consultank Lutz Harder GmbH Tel: +49(0)178
433 7434 (24h Emergency Contact)

! 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 Sens. 1	H317	
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Aquatic Chronic 2	H411	
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Hazard Statements

H317	May cause an allergic skin reaction.
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H411	Toxic to aquatic life with long lasting effects.
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2.2. Label elements

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



GHS07



GHS09

! Signal word

Warning

Hazard Statements

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P102 Keep out of reach of children.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

P501 Dispose of contents/container to hazardous or special waste collection point.

! Hazardous ingredients for labeling

6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine

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**! Description**

aromatic diamine compound

! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
106264-79-3	403-240-8	6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine	2,5 < 10	Acute Tox. 4, H302 / Skin Sens. 1, H317 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
27236-65-3	234-835-5	Diphenyl[μ[(tetrapropenyl)succinato(2-)-O:O']] diquecksilber	0,1 < 0,25	Acute Tox. 3, H301 / STOT RE 1, H372 / Skin Corr. 1B, H314 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410



! 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.

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 with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

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

No information available.

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

Unsuitable extinguishing media

water

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

Ammonia

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.

Additional information

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.

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, 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**

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.

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 together with food.

Keep away from water.

! Further information on storage conditions

Protect from atmospheric moisture and water

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.

Hand protection

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitrile rubber; 0,4mm; 480min;60min.

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**

liquid

Colour

brown

Odour

similar to amine

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
boiling point	> 200 °C			DIN 53171	
melting point	not determined				
Flash point	> 150 °C			closed cup	
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	340 °C			DIN 51794	
Self ignition temperature					The product is not self-igniting.



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

Printed 08.01.2016

revision 16.06.2014 (GB) Version 8.1

Urethane Hardener 45

	Value	Temperature	at	Method	Remark
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	1 g/cm ³	20 °C		ISO 2811	
Vapour density	not determined				
Solubility in water					No or low immiscibility
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity dynamic	430 mPa*s	25 °C		ISO 9371	
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

No information available.

10.3. Possibility of hazardous reactions

Reactions with strong acids and alkalies.

Reactions with strong oxidising agents.

exothermic reaction

Exothermic reaction with hardener component.

10.4. Conditions to avoid

Water

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.

Nitrous oxides (NO_x)

Ammonia

**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
Skin irritation	non-irritant			
Eye irritation	non-irritant			
Skin sensitization	sensitizing			

Experiences made from practice

Sensitization through skin contact possible.

! 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

No information available.

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**

Toxic to aquatic life, fishes and plankton.

Even in the event of low quantities penetration into the underground drinking water is contaminated.

Toxic to fishes.

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.

Recommendations for packaging

Dispose of according to the local waste regulations.

! SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	3082	3082	3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine)	Environmentally hazardous substance, liquid, n.o.s. (6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine)
14.3. Transport hazard class(es)	9	9	9
14.4. Packing group	III	III	III
14.5. Environmental hazards	Yes	Yes	Yes

14.6. Special precautions for user

Caution: Dangerous substances and objects.

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) 9

tunnel restriction code E

Classification code M6

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 0,2 %

VOC value 2 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 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: 8.0

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H372	Causes 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.