

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

Name of product WEICON Ceramic BL (slow)
Code-Nr. 104003

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**Manufacturer/distributor**

WEICON GmbH & Co. KG
Königsberger Straße 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**Emergency advice**

GIZ Bonn (German, English)
Phone ++49(0)228-19 240

! 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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Acute Tox. 4	H302
Acute Tox. 4	H312
Skin Corr. 1B	H314
Skin Sens. 1	H317
Aquatic Chronic 3	H412

Hazard Statements

H302 + H312	Harmful if swallowed or in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**

GHS05



GHS07



! Signal word
Danger

Hazard Statements

H302 + H312 Harmful if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P102 Keep out of reach of children.
P260 Do not breathe vapours/spray.
P264 Wash hands thoroughly after handling.
P270 Do not 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.
P280 Wear protective gloves/eye protection.
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.
P310 Immediately call a POISON CENTER or doctor/physician.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/container to hazardous or special waste collection point.

! Hazardous ingredients for labeling

4,4'-isopropylidenediphenol, Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy), trimethylhexane-1,6-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

Description

Aliphatic and cyclo-aliphatic polyamine.

3.2. Mixtures

! 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	13 - 30	Acute Tox. 4, H332 / Acute Tox. 4, H302
2855-13-2	220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine	13 - 30	Acute Tox. 4, H312 / Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412



Hazardous ingredients (continued)

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
25620-58-0	247-134-8	trimethylhexane-1,6-diamine	1 - 3	Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Skin Sens.1, H317 / Aquatic Chronic. 3, H412
80-05-7	201-245-8	4,4'-isopropylidenediphenol	0,1 < 1	Eye Dam. 1, H318 / Skin Sens. 1, H317 / Repr. 2, H361f / STOT SE 3, H335 / Aquatic Chronic 2, H411
9046-10-0		Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)	30 - 60	Acute Tox. 4, H302, H312 / 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-xxxx
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	01-2119514687-32-xxxx
80-05-7	4,4'-isopropylidenediphenol	01-2119457856-23

! 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.
Seek medical treatment immediately.

! In case of skin contact

In case of contact with skin wash off with soap and water.
Seek medical treatment immediately.

! In case of eye contact

Medical treatment by eye specialist.
After eye contact, rinse opened eye for 15 minutes under running water. Transfer to hospital for specialist examination.

! In case of ingestion

If swallowed or in case of vomiting, danger of infiltration into the lungs (danger of aspiration).
Do not induce vomiting.
Call for a doctor immediately.
Rinse out mouth thoroughly with water.
Give plenty of water to drink in small sips.

4.2. Most important symptoms and effects, both acute and delayed

! Physician's information / possible symptoms

vomiting
Asthmatic complaints
Skin burns
Confusion

! 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)

If swallowed or in the event of vomiting, risk of entering the lungs.
Keep under medical supervision for at least 48 hours.



! SECTION 5: Firefighting measures

5.1. Extinguishing media

! Suitable extinguishing media

Fire-extinguishing activities according to surrounding.

5.2. Special hazards arising from the substance or mixture

Danger of bursting

In case of fire formation of dangerous gases possible.

Nitrogen oxides (NO_x)

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.

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

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/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

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.

Ensure sufficient ventilation.



! 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.
Use barrier skin cream.

! 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 alkalis.
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 heat and direct solar radiation.
Store at 5 to 40°C (=41 to 104°F).
Recommended storage temperature: room temperature.

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.
Short-term: filter apparatus, filter A2/P2, otherwise environment-independent breathing apparatus.

! 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

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

**! SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

liquid

Colour

light yellow

Odour

hardly noticeable

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	ca. 11	20			1:1 in water
boiling point	> 180 °C				
melting point	> 180 °C				
Flash point	119 °C			DIN 51758	Pensky-Martens Closed Cup
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not applicable				
Self ignition temperature	not applicable				
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	0,0009 kPa	20 °C			
Relative density	1 g/cm ³	25 °C			
Vapour density	not determined				
Solubility in water					more or less insoluble
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	> 180 °C				
Viscosity dynamic	30 - 50 mPa*s	25 °C			

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.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials**! Materials to avoid**

Alkali (lye), concentrated

Acid, concentrated

Oxidising agent, strong

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Nitrous oxides (NOx)

Thermal decomposition

Remark No decomposition if used as directed.

! SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity/Irritability/Sensitization**

	Value/Validation	Species	Method	Remark
LD50 acute oral	706,5 mg/kg			ATE
LD50 acute dermal	1534,3 mg/kg			ATE
LC50 acute inhalation	9,125 mg/l ()		dust/mist	ATE
Irritability skin	corrosive	rabbit		
Irritability eye	corrosive	rabbit eye		
Skin sensitization	sensitizing	Guinea pig		

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Chronic Toxicity	NOAEL 60 mg/kg (90 d) Repeated Dose 90-Day Oral Toxicity Study in Rodents	CAS: 2855-13-2	OECD 408	-



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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WEICON Ceramic BL (slow)

Value	Species	Method	Validation
Mutagenicity			No experimental information on genotoxicity in vitro available.
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.

! **Specific target organ toxicity (single exposure)**
not applicable

! Experiences made from practice

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

Sensitization through skin contact possible.

Causes corrosions.

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.

! SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

Value	Species	Method	Validation
Fish LC50 110 mg/l (96 h)	Fish	EU EC C. 1 Acute Toxicity for Fish	CAS: 2855-13-2
Daphnia EC50 23 mg/l (48 h)	Daphnia magna	OECD 202	CAS: 2855-13-2
Algae EC50 37 mg/l (72 h)	Green algae	EU EC C.3 Alga Inhibition Test	CAS: 2855-13-2
Bacteria IC50 89 mg/l (17 h)	activated sludge		CAS: 25620-58-0

12.2. Persistence and degradability

Biological degradability	8 % (28 d) CAS: 2855-13-2	EU Method C.4	not readily degradable
Degradability	95 - 97 % (21 d) CAS: 100-51-6	OECD 301 A	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

**! 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****! Waste code No.**

07 02 04*

Name of waste

other organic solvents, washing liquids and mother liquors

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.

Dispose of as hazardous waste.

Recommendations for packaging

Empty containers can be deposited after cleaning in accordance with 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	2735	2735	2735
14.2. UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylene diamine, Isophorone diamine)	AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylene diamine, Isophorone diamine)	Amines, liquid, corrosive, n.o. s. (Polyoxypropylene diamine, Isophorone diamine)
14.3. Transport hazard class(es)	8	8	8
14.4. Packing group	II	II	II
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) 8

tunnel restriction code E

Classification code C7

Transport/further information

24h EMERGENCY CONTACT (TRANSPORT) +49(0)178 433 7434 (Consultank Lutz Harder GmbH)



! SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

! VOC standard

VOC content	0 %
VOC value	0 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

H302	Harmful if swallowed.
H302,	-?-
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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).
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.