according to Regulation (EC) No. 1907/2006

Sikadur® Blade Repair-90 Part B



Revision Date 15.07.2014 Print Date 15.07.2014

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

1.1 Product identifier

Trade name : Sikadur® Blade Repair-90 Part B

1.2 Relevant identified uses of the substance or mixture and uses advised against

At present there is no complete information available on identified uses. When the data becomes available, it will be integrated into the safety data sheet.

Product use : Tooling system., Product is not intended for consumer use.

1.3 Details of the supplier of the safety data sheet

Company : Sika Deutschland GmbH

Kornwestheimer Str. 103-107

70439 Stuttgart

Telephone : +4971180090 E-mail address : EHS@de.sika.com

1.4 Emergency telephone number

Emergency telephone num: 0173-6774799 Out of office hours only

ber EHS@de.sika.com

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Type of product : Mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H302: Harmful if swallowed.
Acute toxicity, Category 4 H312: Harmful in contact with skin.

Skin corrosion, Category 1A H314: Causes severe skin burns and eye damage.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - repeated H373: May cause damage to organs through pro-

exposure, Category 2 longed or repeated exposure.

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Corrosive R35: Causes severe burns.

Harmful R48/22: Harmful: danger of serious damage to

health by prolonged exposure if swallowed.

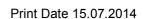
R21/22: Harmful in contact with skin and if swal-

lowed.

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Sensitising R43: May cause sensitisation by skin contact.

Dangerous for the environment R51/53: Toxic to aquatic organisms, may cause

long-term adverse effects in the aquatic environ-

ment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :









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.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention**:

P260 Do not breathe dust/ fume/ gas/ mist/ va-

pours/ spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immedi-

ately all contaminated clothing. Rinse skin

with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with wa-

ter for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P310 Immediately call a POISON CENTER or

doctor/ physician.

Hazardous components which must be listed on the label:

• 220-666-8 3-aminomethyl-3,5,5-trimethylcyclohexylamine

217-168-8
 4,4'-methylenebis(cyclohexylamine)
 216-032-5
 m-phenylenebis(methylamine)

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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Hazardous components

Chemical Name CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
3-aminomethyl-3,5,5- trimethylcyclohexylamine 2855-13-2 220-666-8 01-2119514687-32-XXXX	C; R34 Xn; R21/22 R43 R52-R53	Acute Tox.4; H302 Acute Tox.4; H312 Skin Corr.1C; H314 Skin Sens.1A; H317 Aquatic Chronic3; H412	>= 25 - < 50
4,4'-methylenebis(cyclohexylamine) 1761-71-3 217-168-8 01-2119541673-38-XXXX	Xn; R22 C; R35 N; R51/53 Xn; R48/22 R43	Acute Tox.4; H302 Skin Corr.1A; H314 Skin Sens.1B; H317 STOT RE2; H373 Aquatic Chronic2; H411	>= 20 - < 25
Polyoxypropylentriamine 39423-51-3 500-105-6 01-2119556886-20-XXXX	Xn; R21/22 Xi; R41 N; R51/53	Acute Tox.4; H302 Acute Tox.4; H312 Eye Dam.1; H318 Aquatic Chronic2; H411	>= 10 - < 20
cyclohex-1,2-ylenediamine 694-83-7 211-776-7 01-2119976312-37-XXXX Contains: perhydroazepine <= 0,2 % hexamethylenediamine <= 0,1 % 2-methylpentane-1,5-diamine <= 0,1 %	C; R35 Xn; R20/21/22 Xi; R37-R41	Acute Tox.4; H302 Acute Tox.4; H332 Acute Tox.4; H312 Skin Corr.1A; H314 Eye Dam.1; H318 STOT SE3; H335	>= 10 - < 20
m-phenylenebis(methylamine) 1477-55-0 216-032-5 01-2119480150-50-XXXX	Xn; R20/22 C; R34 R43 R52/53	Acute Tox.4; H302 Acute Tox.4; H332 Skin Corr.1B; H314 Skin Sens.1; H317 Aquatic Chronic3; H412	>= 10 - < 20

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

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If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficul-

ty.

In case of eye contact Small amounts splashed into eyes can cause irreversible tis-

sue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses.

Keep eye wide open while rinsing.

If swallowed Clean mouth with water and drink afterwards plenty of water.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms Gastrointestinal discomfort

> Allergic reactions **Dermatitis** Skin disorders

See Section 11 for more detailed information on health effects

and symptoms.

Risks Health injuries may be delayed.

> corrosive effects sensitising effects

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

ucts

Hazardous combustion prod- : No hazardous combustion products are known

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5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This

> must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accord-

ance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Deny access to unprotected persons.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid exceeding of the given occupational exposure limits

(see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical

products

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

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Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accord-

ance with local regulations.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields

Eye wash bottle with pure water Wear eye/face protection.

Hand protection : Chemical-resistant, impervious gloves complying with an ap-

proved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manu-

facturer specifications.

Suitable for short time use or protection against splashes:

Butyl rubber/nitrile rubber gloves (0,4 mm), Contaminated gloves should be removed.

Suitable for permanent exposure:

Viton gloves (0.4 mm), breakthrough time >30 min.

Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345,

long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing

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and stirring work.

Respiratory protection : No special measures required.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : amine-like

Odour Threshold : No data available

Flash point : > 101 °C

Ignition temperature : not applicable

Lower explosion limit (Vol%) : No data available

Upper explosion limit (Vol%) : No data available

Flammability (solid, gas) : No data available

Oxidizing properties : No data available

Auto-ignition temperature : No data available

pH : Note: not determined

Melting point/range / Freez-

ing point

: No data available

Boiling point/boiling range : No data available

Vapour pressure : No data available

Density : ca.0,94 g/cm3

at 20 °C

Water solubility : Note: insoluble

Partition coefficient: n-

octanol/water

: No data available

Viscosity, dynamic : ca.10 mPa.s

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at 20 °C

Viscosity, kinematic : > 7 - < 20,5 mm2/s

at 40 °C

Relative vapour density : No data available

Evaporation rate : No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Acute oral toxicity : LD50 Oral rat: 1.030 mg/kg

Acute dermal toxicity : Acute toxicity estimate : 1.100 mg/kg

Method: Converted acute toxicity point estimate

4,4'-methylenebis(cyclohexylamine):

Acute oral toxicity : LD50 Oral rat: 625 mg/kg

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Acute dermal toxicity : LD50 Dermal rabbit: 2.110 mg/kg

Polyoxypropylentriamine :

Acute oral toxicity : LD50 Oral rat: > 550 mg/kg

Acute dermal toxicity : LD50 Dermal rabbit: > 1.001 mg/kg

m-phenylenebis(methylamine):

Acute oral toxicity : LD50 Oral rat: 930 mg/kg

Acute inhalation toxicity : LC50 rat: 1,34 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal rat: > 3.100 mg/kg

Skin corrosion/irritation

Product

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Product

No data available

Respiratory or skin sensitisation

Product

May cause an allergic skin reaction.

Components:

4,4'-methylenebis(cyclohexylamine):

Test Method: Buehler Test

Classification: The product is a skin sensitiser, sub-category 1B. Result: The product is a skin sensitiser, sub-category 1B.

result. The product is a skill scholaser, sub-category TE

Germ cell mutagenicity

Product

Mutagenicity : No data available

Carcinogenicity

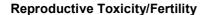
Product

Carcinogenicity : No data available

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Reproductive toxicity : No data available

No data available

Reproductive Toxicity/Development/Teratogenicity

Teratogenicity : No data available

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

4,4'-methylenebis(cyclohexylamine):

Toxicity to daphnia and other : EC50: 6,84 mg/l, 48 h, Daphnia magna (Water flea)

aquatic invertebrates (Chron-

ic toxicity)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Other adverse effects

No data available

according to Regulation (EC) No. 1907/2006

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : In accordance with the EWC Waste Regulation the classifica-

tion of waste is to be assigned to the jurisdiction of the origin of waste. Therefore, it is not possible to assign a particular

waste identification number.

Completely emptied packagings may be given for recycling. Empty packaging may still contain hazardous residues. Empty packaging should be removed by a licensed waste contractor. Sika has agreed disposal contracts for all packaging which is

brought into circulation in Germany. For further details see www.sika.de

SECTION 14: Transport information

ADR

14.1 UN number : 2735

14.2 Description of the goods : POLYAMINES, LIQUID, CORROSIVE, N.O.S.

(3-aminomethyl-3,5,5-trimethylcyclohexylamine, 4,4'-

methylenebis(cyclohexylamine))

14.3 Class: 814.4 Packing group: IIClassification Code: C7Labels: 8Tunnel restriction code: (E)14.5 Environmentally hazard-: yes

ous

IATA

14.1 UN number : 2735

14.2 Description of the goods : Polyamines, liquid, corrosive, n.o.s.

(3-aminomethyl-3,5,5-trimethylcyclohexylamine, 4,4'-

methylenebis(cyclohexylamine))

 14.3 Class
 : 8

 14.4 Packing group
 : II

 Labels
 : 8

 14.5 Environmentally hazard : yes

ous

IMDG

14.1 UN number : 2735

14.2 Description of the goods : POLYAMINES, LIQUID, CORROSIVE, N.O.S.

(3-aminomethyl-3,5,5-trimethylcyclohexylamine, 4,4'-

methylenebis(cyclohexylamine))

14.3 Class : 8 **14.4 Packing group** : II

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Labels 8 F-A EmS Number 1 EmS Number 2 S-B 14.5 Marine pollutant yes

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to EC Directives (1999/45/EC)

Hazard pictograms





Corrosive

Dangerous for the environment

Harmful in contact with skin and if swal-R-phrase(s) : R21/22

lowed.

R35 Causes severe burns.

May cause sensitisation by skin contact. R43 R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Toxic to aquatic organisms, may cause

R51/53

long-term adverse effects in the aquatic

environment.

S-phrase(s) : S26 In case of contact with eyes, rinse immedi-

ately with plenty of water and seek medical

advice.

Wear suitable protective clothing, gloves S36/37/39

and eye/face protection.

S45 In case of accident or if you feel unwell,

seek medical advice immediately (show

the label where possible).

Hazardous components which must be listed on the label:

3-aminomethyl-3,5,5-trimethylcyclohexylamine 220-666-8

4,4'-methylenebis(cyclohexylamine) 217-168-8

cyclohex-1,2-ylenediamine 211-776-7 m-phenylenebis(methylamine) 216-032-5

Prohibition/Restriction

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REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

Concern for Authorisation (Article 59).

REACH - Candidate List of Substances of Very High : None of the components are listed

(=> 0.1 %).

: not applicable

: not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

REACH Information: All substances contained in our Products are

- preregistered or registered by our upstream suppliers, and/or

preregistered or registered by us, and/or
excluded from the regulation, and/or
exempted from the registration.

Water contaminating class

(Germany)

: WGK 2 water endangering

Gemäß VwVws vom 30.Juli 2005

VOC-CH (VOCV) : no VOC duties

VOC-EU (solvent) : not applicable

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Full text of R-Phrases

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R20/22 Harmful by inhalation and if swallowed.
R21/22 Harmful in contact with skin and if swallowed.

R22 Harmful if swallowed.

R34 Causes burns.

R35 Causes severe burns.

R37 Irritating to respiratory system.
R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if

swallowed.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R52 Harmful to aquatic organisms.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

R53 May cause long-term adverse effects in the aquatic environment.

Full text of H-Statements

H302 Harmful if swallowed. H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

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H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. Acute toxicity

Aquatic Chronic
Eye Dam.
Skin Corr.
Skin Sens.

Chronic aquatic toxicity
Serious eye damage
Skin corrosion
Skin sensitisation

STOT RE Specific target organ toxicity - repeated exposure STOT SE Specific target organ toxicity - single exposure

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any any use and processing.

Changes as compared to previous version!