

Safety Data Sheet
according to 91/155/EEC and ISO 11014-1
(see instructions in Annex to 93/112/EC)

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SDS No.: 090A

HAZARDOUS ACCORDING TO THE CRITERIA OF WORKSAFE AUSTRALIA

1. Identification of the substance/preparation and company

Product

Product name

Sikadur®-52 Part A

Manufacturer/supplier information

Manufacturer/supplier:	Sika Australia Pty Ltd
Street/postbox:	55 Elizabeth Street
Town/City and Post Code:	WETHERILL PARK NSW
Country:	Australia
Phone:	(02) 9725 1145
Telefax:	(02) 9725 3330
Emergency information phone:	1800 033 111

2. Composition/information on ingredients

Chemical characterization

Modified epoxy resin

Hazardous ingredients

Designation according to 67/548/EEC

CAS No. Concentration Danger symbols R phrases

- reaction product: bisphenol A-(epichlorhydrin)
epoxy resin (number average molecular weight <= 700)
25068-38-6 > 60 % Xi,N 36/38,43,51/53
- oxirane, mono[(C12-14-alkyloxy)methyl]derivs.
68609-97-2 1 - 10 % Xi,N 38,43,51/53

3. Hazards identification

Hazards identification

Xi	Irritant
N	Dangerous to environment

Information on hazards to man and to the environment

36/38	Irritating to eyes and skin.
43	May cause sensitization by skin contact.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

*** 4. First-aid measures**

General instructions

In any case show the physician the Safety Data Sheet

* 4. First-aid measures (continued)

After inhalation

Ensure supply of fresh air.

In the event of symptoms take medical treatment.

After skin contact

Remove soiled or soaked clothing immediately, do not allow to dry.

In case of contact with skin wash off immediately with soap and water

Consult a doctor if skin irritation persists.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water.

Seek immediate medical assistance.

After ingestion

Do not induce vomiting. Rinse mouth with water. Give a glass of water.

Summon a doctor immediately.

5. Fire-fighting measures

Suitable extinguishing media

foam

dry powder

carbon dioxide

water mist

Unsuitable extinguishing media for safety reasons

Full water jet

Exposure hazard arising from the product, its combustion products or resulting gases

In the event of fire the following can be released:

Carbon monoxide (CO)

Carbondioxide (CO₂)

Special protective equipment for fire-fighting

Use breathing apparatus.

Additional information

Cool containers with water spray jet.

Fire residues and contaminated firefighting medium must be disposed of in accordance with the local regulations.

Collect contaminated firefighting water separately, must not be discharged into the drains.

6. Accidental release measures

Personal precautions

Ensure adequate ventilation.

Use personal protective clothing.

Use breathing apparatus if exposed to vapours/dust/aerosol.

Environmental precautions

In case of entry into waterways, soil or drains,
inform the responsible authorities.

Procedures for cleaning up

Pick up with absorbent material.

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder).

When picked up, treat material as prescribed under heading "Disposal".

Remove residues with small amount of alcohol-based solvent.

7. Handling and storage

Handling

Instructions for safe handling

See chapter 8 / Personal protective equipment.

Instructions for fire and explosion protection

Keep away from sources of ignition - no smoking.

Storage

Requirements for storage rooms and containers

Keep container tightly closed in a cool, well-ventilated place.

Combined storage instructions

Keep away from food, beverages and animal feedstocks.

Additional information regarding storage

Protect from frost.

Protect from heat and direct sunlight.

Protect from atmospheric moisture and water.

* 8. Exposure controls/personal protection

Exposure Standards

25068-38-6	None established	Worksafe
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68609-97-2	None established	Worksafe
------------	------------------	----------

106-89-8	TWA: 2 ppm (similar or equal to: 7.6 mg/m ³)	Worksafe
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Personal protective equipment

General protective and hygiene measures

Do not inhale vapours

Avoid contact with eyes and skin

Take care for sufficient ventilation or exhaust on the workshop place.

Do not eat, drink or smoke during work time.

Product name: **Sikadur®-52 Part A**

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* 8. Exposure controls/personal protection (continued)

Wash hands before breaks and after work.
Use barrier skin cream.
Remove soiled or soaked clothing immediately.

Respiratory protection
In case of insufficient ventilation.

Ori-nasal mask suitable for organic vapours.
Class of vapour filter is depending on
pollutant concentration on the scene.

Hand protection
Nitrile rubber gloves

Eye protection
Tightly fitting safety glasses

Body protection
protective clothing

9. Physical and chemical properties

Appearance

Physical state: liquid
Colour: colourless
Odour: characteristic

Data relevant to safety

	Method
Flash point	Not applicable
Density at 20°C	1.14 g/cm ³
Solubility in water at 20°C	insoluble
pH value at 20°C	6.8
Viscosity at 20°C	850 mPas

10. Stability and reactivity

Conditions to avoid

Not any known.

Materials to avoid/dangerous reactions

Hazardous reactions possible with:
Amines
Phenols
Acids
Alkalis

Thermal decomposition and hazardous decomposition products

No decomposition if used as prescribed.

*** 11. Toxicological information**

Sensitization

When skin contact:

Sensitization/allergic reaction possible.

Allergic reaction can may be observed in sensitized persons, even on very low concentrations.

Experience on humans

When skin contact:

Irritation.

When eyes contact:

Irritation.

When inhalation:

Irritation.

When swallowed:

Small amount may cause considerable health disorders.

Further toxicological information

For more-component products see also the safety-data-sheets of the other components.

12. Ecological information

Additional information

Product is water polluting.

Do not allow to enter waste water drain, waterways or soil.

From current information concerning hazardous substances, environmental effects cannot be claimed at this time.

13. Disposal considerations

Product

Recommendations

Must be disposed of in a special waste disposal unit in accordance with the corresponding regulations.

See chapter 15, national regulations.

Packaging

Recommendations

Completely emptied packagings can be given for recycling.

Packaging that cannot be cleaned should be disposed of as product waste

Product name: **Sikadur®-52 Part A**

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14. Transport information

ADG/ADR/RID

UN No.: N/A Class: N/A Packing group: N/A
Proper shipping name
N/A
Label No.: 9

IMO/IMDG

UN No.: 3082 Class: 9 Packing group: III
Proper shipping name
Environmentally hazardous substance, liquid, n.o.s.
contains: Epoxide resin
Label No.: 9

IATA/ICAO

Further information
No dangerous goods.

* 15. Regulatory information

Labelling according to EEC Directive

The product is classified and labelled in accordance with
EC directives/the relevant national laws.

Relevant hazardous ingredients for labelling

Contains: reaction product: bisphenol A-(epichlorhydrin)
epoxy resin (number average molecular weight <= 700)
oxirane, mono[(C12-14-alkyloxy)methyl]derivs.

Danger symbols

Xi Irritant
N Dangerous to environment

R phrases

36/38 Irritating to eyes and skin.
43 May cause sensitization by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term
adverse effects in the aquatic environment.

S phrases

2 Keep out of reach of children
24 Avoid contact with skin.
37 Wear suitable gloves.

Special labelling for certain preparations

Contains epoxy-containing compounds.
Observe manufacturer's instructions.

National regulations

Poisons Schedule (SUSDP) (AUS)
S5 Poison (contains epoxy resins)

Product name: **Sikadur®-52 Part A**

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* 15. Regulatory information (continued)

Toxicity class 4 SFOPH T No.: 615084

Water hazardous class (WGK)

WGK 2

Brandklasse (CH)

4

Abfallcode und Abfallbezeichnung (CH)

DISPOSE AS SPECIAL WASTE: PAINT HAVING AN ORGANIC PHASE

(BASIS EPOXY RESIN).

* 16. Other information

Epoxy resins contain residual amounts, typically less than 10 ppm of Epichlorohydrin (CAS No. 106-89-8) as a result of the chemical reaction process in which they are made.

asterisk (*) on left margin marks modification of previous version

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 Technical Data Sheet prior to any use and processing.

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according to 91/155/EEC and ISO 11014-1
(see instructions in Annex to 93/112/EC)

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SDS No. 066B

HAZARDOUS ACCORDING TO THE CRITERIA OF WORKSAFE AUSTRALIA

1. Identification of the substance/preparation and company

Product

Product name

Sikadur®-52 Part B Normal

Manufacturer/supplier information

Manufacturer/supplier:

Sika Australia Pty Ltd

Street/postbox:

55 Elizabeth Street

Town/City and Post Code:

WETHERILL PARK NSW

Country:

Australia

Phone:

(02) 9725 1145

Telefax:

(02) 9725 3330

Emergency information phone:

1800 033 111

*** 2. Composition/information on ingredients**

Chemical characterization

Modified polyamine

Hazardous ingredients

Designation according to 67/548/EEC

CAS No.

Concentration

Danger symbols R phrases

• Benzyl alcohol

100-51-6

30 - 60 %

Xn

20/22/22

• 3-aminomethyl-3,5,5-trimethylcyclohexylamine

2855-13-2

10 - 30 %

C

21/22,34,41,43

• 3,6-diazaoctanethylenediamin

112-24-3

10 - 30 %

C

21,34,43,52/53

• 2,4,6-tris(dimethylaminomethyl)phenol

90-72-2

1 - 10 %

Xi

36/38

*** 3. Hazards identification**

Hazards identification

C

Corrosive

Information on hazards to man and to the environment

20/21/22

Harmful by inhalation, in contact with skin and if swallowed.

34

Causes burns.

41

Risk of serious damage to eyes.

43

May cause sensitization by skin contact.

52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

*** 4. First-aid measures**

General instructions

In any case show the physician the Safety Data Sheet

* 4. First-aid measures (continued)

After inhalation

In the event of symptoms take medical treatment.

After skin contact

In case of contact with skin wash off immediately with soap and water

Consult a doctor if skin irritation persists.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water.

Transport immediately to hospital.

After ingestion

Do not induce vomiting. Rinse mouth with water. Give a glass of water to drink.

Summon a doctor immediately.

5. Fire-fighting measures

Suitable extinguishing media

compatible with all usual extinguishing media

Exposure hazard arising from the product, its combustion products or resulting gases

In the event of fire the following can be released:

Carbon monoxide (CO)

Carbondioxide (CO₂)

Nitrogen oxides (NO_x)

Additional information

Fire residues and contaminated firefighting medium must be disposed of in accordance with the local regulations.

Collect contaminated firefighting water separately, must not be discharged into the drains.

6. Accidental release measures

Personal precautions

Remove persons to safety.

Ensure adequate ventilation.

Use personal protective clothing.

Use breathing apparatus if exposed to vapours/dust/aerosol.

Environmental precautions

In case of entry into waterways, soil or drains, inform the responsible authorities.

Procedures for cleaning up

Pick up with absorbent material.

When picked up, treat material as prescribed under heading "Disposal".

*** 7. Handling and storage**

Handling

Instructions for safe handling
See chapter 8 / Personal protective equipment.

Instructions for fire and explosion protection
Not applicable.

Storage

Classified as combustible liquid - UN00Cl as per AS 1940.

Requirements for storage rooms and containers
Store in accordance with AS 1940.
Keep container tightly closed and dry in a cool, well-ventilated place

Combined storage instructions
Keep away from food, beverages and animal feedstocks.

Additional information regarding storage
Protect from frost.
Protect from heat and direct sunlight
Protect from atmospheric moisture and water

*** 8. Exposure controls/personal protection**

Exposure Standards

100-51-6	None established	Worksafe
2855-13-2	None established	Worksafe
112-24-3	None established	Worksafe
90-72-2	None established	Worksafe

Personal protective equipment

General protective and hygiene measures
Take care for sufficient ventilation or exhaust on the workshop place.
Avoid contact with eyes and skin
Use barrier skin cream.
Remove soiled or soaked clothing immediately.
Do not eat, drink or smoke during work time.
Wash hands before breaks and after work.

Respiratory protection
Not applicable.

Hand protection
Butyl rubber/nitrile rubber gloves

Eye protection
Safety glasses

Body protection
Working clothes

Product name: **Sikadur®-52 Part B Normal**

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9. Physical and chemical properties

Appearance

Physical state: liquid
Colour: yellow
Odour: of ammonia

Data relevant to safety

		Method
Melting point	-35 °C	
Boiling point	277 °C	
Flash point	122 °C	Pensky Martens
Auto-ignition temperature	335 °C	
Vapour pressure at 20°C	< 0.01 kPa	
Density at 20°C	1.01 g/cm ³	
Solubility in water at 20°C	miscible	
pH value at 20°C (10g/100ml water)	12	
Viscosity at 20°C	30 mPas	

10. Stability and reactivity

Materials to avoid/dangerous reactions

No hazardous reactions when stored and handled according to prescribed instructions.

Thermal decomposition and hazardous decomposition products

No decomposition if used as prescribed.

* 11. Toxicological information

Sensitization

Sensitization/allergic reaction possible.
Allergic reaction can may be observed in sensitized persons, even on very low concentrations.

Experience on humans

When skin contact:
Harmful effects.
When eyes contact:
May cause irritation.

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11. Toxicological information (continued)

When inhalation:

Harmful effects.

When swallowed:

Small amount may cause considerable health disorders.

12. Ecological information

Additional information

Do not allow to enter waste water drain, waterways or soil.

Due to the high pH, aquatic organisms may be harmed.

From current information concerning hazardous substances, environmental effects cannot be claimed at this time.

13. Disposal considerations

Product

Recommendations

Must be disposed of in a special waste disposal unit in accordance with the corresponding regulations.

See chapter 15, national regulations.

Packaging

Recommendations

Completely emptied packagings can be given for recycling.

Packaging that cannot be cleaned should be disposed of as product waste

14. Transport information

ADG/ADR/RID

UN No.: 1760 Class: 8 Packing group: II

Proper shipping name

Corrosive liquid, N.O.S. *

contains: Triethylenetetramine

Label No.:

IMO/IMDG

UN No.: 1760 Class: 8 Packing group: II

EmS: 8-05

Proper shipping name

Corrosive liquid, N.O.S. *

contains: Triethylenetetramine

Label No.:

Product name: **Sikadur®-52 Part B Normal**

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14. Transport information (continued)

IATA/ICAO

UN No.: 1760 Class: 8 Packing group: II

Proper shipping name

Corrosive liquid, N.O.S. *

contains: Triethylenetetramine

Label No.: 8

*** 15. Regulatory information**

Labelling according to EEC Directive

The product is classified and labelled in accordance with EC directives/the relevant national laws.

Relevant hazardous ingredients for labelling

Contains: 3,6-diazaoctanethylenediamin

Danger symbols

C Corrosive

R phrases

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

34 Causes burns.

41 Risk of serious damage to eyes

43 May cause sensitization by skin contact.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

2 Keep out of reach of children

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

National regulations

Poisons Schedule (SUSDP) (AUS)

S5 Poison (contains > 20 % amines)

Toxicity law (CH)

Toxicity class 3 SFOPH T No.: 617363

Water hazardous class (WGK)

WGK 2

Brandklasse (CH)

4

Abfallcode und Abfallbezeichnung (CH)

DISPOSE AS SPECIAL WASTE: PAINT HAVING AN ORGANIC PHASE (BASIS AMINE).

Product name: **Sikadur®-52 Part B Normal**

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* 15. Regulatory information (continued)

Weitere Hinweise

Unfallmerkblatt Sika CH: 8

16. Other information

asterisk (*) on left margin marks modification of previous version

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 Technical Data Sheet prior to any use and processing.

Material Safety Data Sheet

Sikadur[®]-52 Long Pot Life Part B



HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

COMPANY DETAILS

COMPANY: Sika Australia Pty. Limited A.C.N. 001 342 329
Sika New Zealand Limited

ADDRESS: 55 Elizabeth Street, Wetherill Park, NSW 2164 (AUS)
85-91 Patiki Road, Avondale, Auckland (NZ)

TELEPHONE: (02) 9725 1145 (AUS)
(09) 828 7002 (NZ)

EMERGENCY TELEPHONE NO.: (02) 9757 5634 or (02) 9757 5625 (AUS)
0800 734 607 (NZ)

EMERGENCY AFTER HOURS: 1 800 033 111 (AUS)
0800 734 607(NZ)

FAX NUMBER: (02) 9725 3330 (AUS)
(09) 828 4091 (NZ)

IDENTIFICATION

PRODUCT NAME:	Sikadur [®] -52 Long Pot Life Part B
OTHER NAMES:	Corrosive Liquid N.O.S. * (contains TETA)
MANUFACTURER'S PRODUCT CODE:	Sikadur [®] -341
U.N. NUMBER:	1760
DANGEROUS GOODS CLASS:	Class 8
HAZCHEM CODE:	2R
POISONS SCHEDULE NUMBER:	5
USE:	Sikadur [®] -52 is a gun 2 component epoxy resin for injecting cracks in concrete.

PHYSICAL DESCRIPTION/PROPERTIES:

APPEARANCE:	Straw colour low viscosity liquid with an amine odour
BOILING POINT/MELTING POINT:	> 200°C / < 0°C
VAPOUR PRESSURE:	<0.1hPa @ 20°C
SPECIFIC GRAVITY:	~ 1.00
FLASHPOINT:	~ 94°C DIN 51758
FLAMMABILITY LIMITS:	Ignition temperature > 200°C
SOLUBILITY IN WATER:	@ 20°C solubility ~ 40% v/v.

ADVICE NOTE:

The information contained in this Material Safety Data Sheet corresponds to our best knowledge at the time of publication. Each user should read the MSDS and Technical Data Sheet prior to handling and use.

This product is sold subject to our latest standard terms and conditions.

OTHER PROPERTIES:

pH @ 20°C 10 for 100g / litre in water
Viscosity @ 20°C 10 to 20 mPa.s
Reactivity Reacts with strong acids and strong oxidising agents exothermically.
Thermal decomposition @>250°C produces ammonia, other nitrogen compounds, carbon monoxide and carbon dioxide.

INGREDIENTS:

Chemical Name:	CAS Number:	Proportion:
TETA	112-24-3	10 – 30 %
IPD	2855-13-2	10 – 30 %
aliphatic polyamine adduct	none allocated	10 – 30 %
benzyl alcohol	100-51-6	< 10 %
Non hazardous non reactive diluent	-	to 100%

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

Acute:

Swallowed:	Harmful if swallowed.
Eye:	Irritating to eyes - risk of serious eye damage.
Skin:	Harmful in contact with skin - causes burns.
Inhaled:	Harmful by inhalation.
Chronic	May cause sensitisation by skin contact & inhalation.

FIRST AID

Swallowed:	If poisoning occurs, contact a doctor or Poisons Information Centre. If swallowed, do NOT induce vomiting. Give a glass of water.
Eye:	In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information centre.
Skin:	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with plenty of soap and water.
Inhaled:	Remove from exposure.
First Aid Facilities:	Clean running water.

ADVICE TO DOCTOR:

Treat as for corrosive alkali with low water solubility.

PRECAUTIONS FOR USE

EXPOSURE STANDARDS:	TETA and IPD	TLV: WorkSafe None determined STEL: WorkSafe None determined
ENGINEERING CONTROLS:	Use only in well ventilated areas, use local exhaust ventilation if necessary. If ventilation is poor use respirator specified below.	
PERSONAL PROTECTION:	Wear suitable protective clothing. Wear rubber gloves. Wear eye / face protection. In poorly ventilated areas wear a half face filter respirator suitable for organic vapours. Gloves and safety glasses recommended should comply with Australian Standards or an equivalent approved by a Commonwealth, State or Territory authority. Respirators should comply with Australian Standard AS 1716 <i>Respiratory Protective Devices</i> or an equivalent approved by a State or Territory authority and should be used in accordance with Australian Standard AS	

1715 Selection, Use and Maintenance of Respiratory Protective Devices.

Do not store or consume food, drink or tobacco in an area where they may become contaminated with this material. Wash thoroughly before eating, smoking, applying cosmetics etc. Thoroughly launder work clothes before reuse.

FLAMMABILITY:

Not flammable under conditions of use but will support combustion.

SAFE HANDLING INFORMATION

STORAGE & TRANSPORT:

Store in licensed Corrosive Store complying with Commonwealth, State or Territory regulations.

NSW WorkCover permits storage of less than 1000 Litres exempt from Dangerous Goods Storage regulations.

Dangerous Goods Class: 8
UN Number: 1760
Correct Shipping Name: Corrosive Liquid N.O.S. * (cont. TETA)
Packing Group: III
Hazchem Code: 2R Combustible liquid.
Emergency Procedure Guide: 8A1

SPILLS & DISPOSAL:

Prevent entering sewers or stormwater drains or waterways. In poorly ventilated or confined spaces wear a half face respirator suitable for organic vapours wear safety glasses or goggles and rubber or PVC gloves. Absorb with dry sand, vermiculite or special spill absorbent for organic materials.

Collect absorbent and absorbed spill in a steel container that can be sealed. Dispose of using a licenced incinerator.

FIRE/EXPLOSION HAZARD:

Produces oxides of nitrogen and carbon on combustion.
Fire fighting media-foam, carbon dioxide or dry powder.

OTHER INFORMATION:

Follow good working practice: Handle with care, avoid ingestion, inhalation, eye or skin contact.

Animal toxicity data for TETA

- LD50 for skin absorption in rabbits is 800mg/kg oral
- LD50 for rats is 4340mg/kg.

CONTACT POINT:

Responsible Care Co-ordinator or Laboratory Manager
(02) 9725 1145 (AUS)

Operations Manager (09) 828 7002 or (09) 820 1432 (NZ)