



# Safety Data Sheet

According to NOHSC:2011(2003)

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Version: 1.0

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Revised: 01-February-2007

MSDS No: 019

## CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

### 1. Identification of the substance/preparation and company

Product:

#### Sikadur 31/41 Part A

Recommended use:

Epoxy adhesive mortar

Manufacturer/supplier information:

Manufacturer/supplier:

Sika Australia Pty Ltd

Street/postbox:

55 Elizabeth Street

Town/city and Post Code:

WETHERILL PARK NSW 2164

Country:

AUSTRALIA

Phone:

(02) 9725 1145

Fax:

(02) 9725 3330

General information

Operations Manager

Emergency information phone:

1800 033 111

### 2. Composition/information on ingredients

Chemical characterization:

Solvent free epoxy component

Hazardous ingredients:

Ingredient	CAS No	Concentration
Bisphenol A Epoxy Resin	25068-38-6	10-30%
Bisphenol F Epoxy Resin	9003 -36-5	10-30%
Silica	14808-60-7	> 60

### 3. Hazard identification

**Hazard Category:**

**Hazard Category:**

Xi Irritant

Risk Phrase(s):

R36/38: Irritating to eyes and skin.

R43: May cause sensitisation by skin contact.

Safety Phrase(s):

S24/25: Avoid contact with skin and eyes.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

### 4. First-aid measures

Inhalation:

Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. In cases of possible respiratory irritation or feeling unwell in cases of prolonged exposure, obtain medical attention.

Skin contact:

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Solvents should not be used to clean skin because they may increase the penetration of the material. In case of symptoms seek medical assistance.



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### Eye contact:

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

### Ingestion:

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766). Rinse mouth with water. If swallowed, do NOT induce vomiting.

### Notes to physician:

Treat symptomatically. Effects may be delayed.

## 5. Fire-fighting measures

### Specific hazards:

Combustible material.

### Special protective precautions and equipment:

On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

### Suitable extinguishing media:

If material is involved in a fire use foam, dry chemical or carbon dioxide.  
Do not use water jet.

## 6. Accidental release measures

### Spills:

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Avoid material entering drains and waterways. Wipe up with absorbent such as earth, sand or other inert material. Collect and seal in properly labelled containers or drums for disposal.

## 7. Handling and storage

### Handling:

Use in a well ventilated area. Avoid contact with eyes, skin and clothing.

### Storage:

Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Keep containers closed when not in use - check regularly for leaks.

## 8. Exposure controls/personal protection

### National occupational exposure limits:

No value assigned for this specific material by the NOHSC Australia.

### However for:

	TWA		STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m3	ppm	mg/m3		
Epichlorhydrin	2	7.6	-	-	-	Sk
Silica		0.1				

As published by the NOHSC Australia.

### Biological Limit Values:

As per the "National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC: 1005 (1994)]" the ingredients in this material do not have a Biological Limit Allocated.



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## Engineering measures:

Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Natural ventilation should be adequate under normal use conditions.

## Personal protection equipment:

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.

Wear overalls, chemical goggles and impervious gloves. Due to variations in glove construction and local conditions, the user should make an assessment of the appropriate gloves to use. Wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

## 9. Physical and chemical properties

### Appearance:

Physical state: Paste  
Colour: Light Beige  
Odour: Characteristic

### Data relevant to safety:

Solubility - water:	Insoluble i
Density(20 °C):	1.8 kg/L
Vapour Pressure (20 °C):	0.1 hPa
Flash Point (°C):	170
Flammability Limits (%):	N Av
Autoignition Temperature (°C):	370
pH:	approx. 6

(Typical values only - consult specification sheet)  
N Av = Not available

## 10. Stability and reactivity

### Chemical stability:

This material is thermally stable when stored and used as directed.

### Conditions to avoid:

Elevated temperatures and sources of ignition.

### Incompatible Materials:

Oxidising agents, amines, phenols, acids and alkalis.

### Hazardous decomposition products:

Oxides of carbon, smoke and other toxic fumes.

### Hazardous reactions:

No information available.



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## 11. Toxicological information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects:

Acute Effects:

Inhalation: Material may be irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin will result in irritation. A skin sensitizer. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Eye contact: An eye irritant.

Ingestion:

Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract..

Long Term Effects:

No information available for product.

Acute toxicity / Chronic toxicity:

No LD50 data available for the product.

## 12. Ecological information

Avoid contaminating waterways.

Ecotoxicity:

No information available.

Persistence and degradability:

No information available.

Mobility:

No information available.

## 13. Disposal considerations

Refer to State/Territory Land Waste Management Authority.

## 14. Transport information

ADG/ADR/RID

Not classified as Dangerous Goods by the criteria of the ADG Code.

IMDG

Not classified as Dangerous Goods by the criteria of the IMDG Code for transport by sea.

IATA

Not classified as Dangerous Goods by the criteria of the IATA Dangerous Goods Regulations for transport by air.

## 15. Regulatory information

Poisons Schedule (Aust):

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).



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## 16. Other information

Reason(s) For Issue: Revised

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy. MSDS may be obtained from the following website: [www.sika.com.au](http://www.sika.com.au)

The information contained in this Safety Date 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.



# Safety Data Sheet

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MSDS No: 018

## CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

### 1. Identification of the substance/preparation and company

Product:

#### Sikaur 31/41 Part B Normal

Recommended use:

Epoxy adhesive mortar

Manufacturer/supplier information:

Manufacturer/supplier:	Sika Australia Pty Ltd
Street/postbox:	55 Elizabeth Street
Town/city and Post Code:	WETHERILL PARK NSW 2164
Country:	AUSTRALIA
Phone:	(02) 9725 1145
Fax:	(02) 9725 3330
General information	Operations Manager

Emergency information phone: 1800 033 111

### 2. Composition/information on ingredients

Chemical characterization:

Filled modified polyamine

Hazardous ingredients:

Ingredient	CAS No	Concentration
Benzyl alcohol	100-51-6	1 -10%
Cyclohexanemethanamine	2855-13-2	1 -10%
Triethylenetetramine	112-24-3	1-10%
2,4,6 Tris(dimethyl aminomethyl)phenol	90-72-2	1-10%
Silica	14808-60-7	> 60

### 3. Hazard identification

Hazard Category:

Xn Harmful  
C Corrosive

Risk Phrase(s):

R20/21/22: Harmful by inhalation, by contact with skin and if swallowed.  
R34: Causes burns.  
R43: May cause sensitisation by skin contact.

Safety Phrase(s):

S2 Keep out of reach of children.  
S24/25: Avoid contact with skin and eyes.  
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.  
S45 In case of accident or if you feel unwell, seek medical advise immedietly.

### 4. First-aid measures

Inhalation:

Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice. Seek medical advice if effects persist.



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## Skin contact:

For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

## Eye contact:

Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

## Ingestion:

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766). Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Get to a doctor or hospital quickly.

## Notes to physician:

Treat symptomatically. Effects may be delayed. Can cause corneal burns.

## 5. Fire-fighting measures

### Specific hazards:

Combustible material. On burning may emit oxides of carbon and nitrogen.

### Special protective precautions and equipment:

On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

### Suitable extinguishing media:

If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

## 6. Accidental release measures

### Small Spills:

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

### Large spills:

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of sewers or waterways has occurred advise local emergency services.

## 7. Handling and storage

### Handling:

Avoid skin and eye contact and inhalation of vapour.

### Storage:

Store in a cool, dry, well-ventilated place and out of direct sunlight.  
Store away from incompatible materials described in Section 10.  
Keep containers closed when not in use - check regularly for leaks.



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## 8. Exposure controls/personal protection

National occupational exposure limits:

No value assigned for this specific material by the NOHSC Australia.

However for:

	TWA	STEL	CARCINOGEN	NOTICES		
	ppm	mg/m3	ppm	mg/m3	CATEGORY	
Silica		0.1				

As published by the NOHSC Australia.

Biological Limit Values:

As per the "National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC: 1005 (1994)]" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures:

Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local exhaust ventilation or while wearing appropriate respirator. Keep containers closed when not in use.

Personal protection equipment:

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.

Wear overalls, chemical goggles and impervious gloves. Due to variations in glove construction and local conditions, the user should make an assessment of the appropriate gloves to use. Wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. If risk of inhalation of exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

## 9. Physical and chemical properties

Appearance:

Physical state: Low viscosity liquid  
Colour: Straw colour  
Odour: Amine odour

Data relevant to safety:

Solubility: Partly soluble in water.  
Specific Gravity (20 °C): 1.9  
Vapour Pressure (20 °C): 0.3 hPa  
Flash Point (°C): 111  
Flammability Limits (%): 1-6%  
Auto Ignition Temperature (°C): 300  
pH: 11

(Typical values only - consult specification sheet)  
N Av = Not available



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MSDS No: 018

## 10. Stability and reactivity

### Chemical stability:

This material is thermally stable when stored and used as directed.

### Conditions to avoid:

Elevated temperatures and sources of ignition.

### Incompatible Materials:

Oxidising agents and acids.

### Hazardous decomposition products:

Oxides of carbon and nitrogen, smoke and other toxic fumes.

### Hazardous reactions:

No information available.

## 11. Toxicological information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects:

Inhalation: Harmful by inhalation. Material may be irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Eye contact: A severe eye irritant. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury.

Ingestion: Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

### Long Term Effects:

No information available for product.

### Acute toxicity / Chronic toxicity:

No LD50 data available for the product.

## 12. Ecological information

Avoid contaminating waterways.

### Ecotoxicity:

No information available.

### Persistence and degradability:

No information available.

### Mobility:

No information available.

## 13. Disposal considerations

Refer to State/Territory Land Waste Management Authority.



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## 14. Transport information

### ADG/ADR/RID

UN No: 1759  
Dangerous Goods Class: 8  
Packing Group: III  
Hazchem Code: 2R

Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (contains CYCLOALIPHATIC AMINE)

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), dangerous when wet substances (Class 4.3), oxidising agents (Class 5.1), organic peroxides (Class 5.2), cyanides of Class 6, radioactive substances (Class 7) or food and food packaging in any quantity, however exemptions may apply. Note that material is incompatible with acids and alkalis.

### IMDG

UN No: 1759  
Dangerous Goods Class: 8  
Packing Group: III

Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (contains CYCLOALIPHATIC AMINE)

### IATA

UN No: 1759  
Dangerous Goods Class: 8  
Packing Group: III

Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (contains CYCLOALIPHATIC AMINE)

## 15. Regulatory information

### Poisons Schedule (Aust):

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

## 16. Other information

Reason(s) For Issue: Revised

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy. MSDS may be obtained from the following website: [www.sika.com.au](http://www.sika.com.au)

The information contained in this Safety Date 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<sup>®</sup>-31/41 Rapid 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.:** 1 800 033 111 (AUS)  
0800 734 607 (NZ)

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

### IDENTIFICATION

**PRODUCT NAME:** Sikadur<sup>®</sup>-31 / 41 Rapid Pot Life Part B

**OTHER NAMES:** Corrosive Solid N.O.S.\* (contains TMD)

**MANUFACTURER'S PRODUCT CODE:** None

**U.N. NUMBER:** 1759

**DANGEROUS GOODS CLASS:** Class 8

**HAZCHEM CODE:** 2X

**POISONS SCHEDULE NUMBER:** 5

**USE:** Sikadur<sup>®</sup>-31 Is a 2 component epoxy resin based structural adhesive.  
Sikadur<sup>®</sup>-41 Is a 3 component epoxy resin based patching mortar or render.

#### PHYSICAL DESCRIPTION/PROPERTIES:

**APPEARANCE:** Dark grey thixotropic paste.

**BOILING POINT/MELTING POINT:** > 200°C / < 0°C

**VAPOUR PRESSURE:** < 0.1hPa @ 20°C

**SPECIFIC GRAVITY:** ~ 1.7

**FLASHPOINT:** ~ 94°C DIN 51758

**FLAMMABILITY LIMITS:** Ignition temperature > 350°C

**SOLUBILITY IN WATER:** @ 20°C solubility ~ 7% 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:

## 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:
TMD	3236-53-1 / 3236-54-2	10 – 30 %
nonyl phenol	25154-52-3	< 10 %
para toluene sulphonic acid	104-15-4	< 10 %
Non hazardous Inorganic fillers		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 - irritating to skin.

Inhaled:

*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:**

Nonyl Phenol, TMD  
and PTSA

TWA: WorkSafe None determined  
STEL: WorkSafe None determined

**ENGINEERING CONTROLS:**

Local ventilation not normally necessary but should be considered if used in poorly ventilated or very confined spaces alternatively a respiratory protection mask fitted with a type A1 filter and complying with AS 1716 Respiratory Devices and used in accordance with AS 1715 which describes use and maintenance.

**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 *Respiratory Protective Devices* 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 &amp; TRANSPORT:

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

Dangerous Goods Class 8  
 UN Number: 1759  
 Proper Shipping Name: Corrosive Solid N.O.S.\* (contains TMD)  
 Packing Group: III  
 Hazchem Code: 2X  
 Emergency Procedure Guide: 8A1

## SPILLS &amp; 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 or vermiculite.

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 Nonyl Phenol:

- Dermal LD50 for skin absorption in rabbits is 2140mg/kg
- Oral LD50 for rats is 1620mg/kg.

Skin (Rabbit): Moderate to severe irritant

Eyes (Rabbit): Severe irritant

Para Toluene Sulphonic Acid:

- Oral LD50 (rat) is 2480mg/kg

**Risk Phrases:**

R43 May cause sensitivity by skin contact.

**Safety Phrases:**

S37 Wear suitable gloves.

## CONTACT POINT:

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

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

# Material Safety Data Sheet

## Sikadur<sup>®</sup> 501



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:** 1 800 033 111 (AUS)  
0800 734 607(NZ)

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

## IDENTIFICATION

PRODUCT NAME:	Sikadur <sup>®</sup> 501
OTHER NAMES:	None
MANUFACTURER'S PRODUCT CODE:	None
U.N. NUMBER:	None assigned
DANGEROUS GOODS CLASS:	None assigned
HAZCHEM CODE:	None assigned
POISONS SCHEDULE NUMBER:	None assigned
USE:	As inert fillers and decorative aggregates.
<b>PHYSICAL DESCRIPTION/PROPERTIES:</b>	
<b>APPEARANCE:</b>	Granular materials ranging in size from 150µm to 1.18mm.
BOILING POINT / MELTING POINT:	Melting point >1200°C
VAPOUR PRESSURE:	Not relevant
BULK DENSITY OF DRY POWDER:	2300-2500 Kg/m <sup>3</sup>
FLASH POINT:	Not relevant
FLAMMABILITY LIMITS:	Not relevant
SOLUBILITY IN WATER:	Negligible

### 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

### INGREDIENTS:

Chemical Name:	CAS Number:	Proportion:
Silica (Quartz)	14808-60-7	100%

## HEALTH HAZARD INFORMATION

### HEALTH EFFECTS:

#### Acute:

Swallowed:	Fine material may irritate mucous membranes of mouth, oesophagus and stomach.
Eye:	Mild irritant.
Skin:	Mild irritant.
Inhaled:	Irritating to upper respiratory tract. Exposure may accentuate pre-existing conditions such as emphysema and chronic bronchitis.

#### Chronic:

Swallowed:	Not applicable.
Eye:	Not applicable.
Skin:	Prolonged exposure may cause drying of the skin. Exposure may accentuate any pre-existing skin conditions.
Inhaled:	Overexposure to respirable dust may cause coughing, wheezing, leading to difficulty on breathing and even impaired pulmonary function. Studies have shown that long-term exposure to respirable crystalline silica may cause silicosis and scarring of lung tissue. Smoking may increase risk.

### FIRST AID:

Swallowed:	Wash mouth and lips with water do NOT induce vomiting. Give a glass of water to dilute stomach contents.
Eye:	Irrigate eye with copious quantities of water for 10-15 minutes. Seek medical attention if irritation persists.
Skin:	Remove dusty clothing wash skin with soap and water.
Inhaled:	If dust is inhaled. Remove from contaminated area. Seek medical attention if irritation occurs.

### ADVICE TO DOCTOR:

Treat symptomatically.

## PRECAUTIONS FOR USE

### EXPOSURE LIMITS:

Dust (NOS)	10 mg/m <sup>3</sup> TWA as inspirable dust crystalline
Silica (Quartz)	0.2 mg/m <sup>3</sup> TWA as respirable dust.

### ENGINEERING CONTROLS:

Ventilation must be adequate to ensure that the working environment is below the TWA value.

### PERSONAL PROTECTION:

Safety glasses should be worn if dust is likely to be generated. If used in poorly ventilated or very confined spaces a Standard disposable dust mask or a respiratory protection mask fitted with a type P filter should be used that complies with AS 1716

Respiratory Devices and used in accordance with AS 1715 which describes use and maintenance.  
Person with a history of respiratory illness or reduced pulmonary function should avoid places with high dust levels. When cutting or abrading the hardened material manufactured from or with sand and aggregate, keep it wetted with water to avoid creating hazardous dust. Do not breathe this dust as it may contain various quantities of crystalline silica.

## SAFE HANDLING INFORMATION

<b>STORAGE &amp; TRANSPORT:</b>	Store in dry location.
<b>SPILLS &amp; DISPOSAL:</b>	Minor spills - clean up all spills immediately Use dry clean up procedure and avoid generating dusts. If exposure to workplace dust is not controlled, respirators fitted with Type P filter is recommended. Vacuum up or sweep up. Major spills - Minor hazard - clear area of personnel and move upwind. Use dry clean up procedure. Avoid generating dust. If inhalation risk of exposure exists, wear approved dust respirator fitted with Type P filter.  Sweep up excess and dispose of at an approved waste disposal site.
<b>FIRE/EXPLOSION HAZARD:</b>	This product is non-flammable and does not cause dust explosion.
<b>OTHER INFORMATION:</b>	
Risk Phrases:	R36/37/38 Irritating to eyes, respiratory system and skin R20/48 Harmful: danger of serious damage to health by prolonged exposure through inhalation
Safety Phrases:	S22 Do not breathe dust S24/25 Avoid contact with skin and eyes S37/39 Wear suitable gloves and eye/face protection
<b>CONTACT POINT:</b>	Responsible Care Co-ordinator or Laboratory Manager (02) 9725 1145 (AUS)  Operations Manager (09) 828 7002 or (09) 820 1432 (NZ)