



Safety Data Sheet

According to NOHSC:2011(2003)

Version: 1.0

Page: 1

Revised: 16-Dec-08

MSDS No: 580

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

1. Identification of the substance/preparation and company

Product:

Sikafloor 381 AS-N Part A

Recommended use:

Chemical resistant conductive epoxy coating.

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. Hazard identification

Hazard Category:

Xi Irritant

Risk Phrase(s):

R36/38:	Irritating to eyes and skin.
R43:	May cause sensitisation by skin contact.
R52/53	Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Safety Phrase(s):

S24/25:	Avoid contact with skin and eyes.
S36/37/39:	Wear suitable protective clothing, gloves and eye/face protection.

3. Composition/information on ingredients

Chemical characterization:

Modified epoxy resin

Hazardous ingredients:

Ingredient	CAS No	Concentration
Bisphenol A diglycidyl ether	25068-38-6	1-10%
Bisphenol F epoxy resin	9003-36-5	10 -30%
1-(2,3 epoxypropoxy)-3,2-bis(2,3 epoxypropoxy) methyl butane	3454-29-3	1 -10%
1,2,4 - trimethyl benzene	95-63-6	< 1%

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. Seek medical advice if effects persist.

Skin contact:

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs 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. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician:

Treat symptomatically.

5. Fire-fighting measures

Specific hazards:

Combustion will produce oxides of carbon, halogenated compounds and metal oxides.

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 (rag, paper towel). 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:

Wear personal protective equipment when handling the product. Avoid skin and eye contact and breathing vapour or mist.

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/m ³	ppm	mg/m ³	CATEGORY	
Epichlorhydrin	2	7.6	-	-	-	Sk

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. 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 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: Liquid
Colour: Various
Odour: Characteristic

Data relevant to safety:

Solubility: Insoluble in cold water.
Density (20 °C): 1.69 kg/L
Flash Point (°C): >101

(Typical values only - consult specification sheet)

10. Stability and reactivity

Chemical stability:

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

Conditions to avoid:

No data available.



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Incompatible Materials:
No information available.

Hazardous decomposition products:
Oxides of carbon, halogenated compounds and metal oxides,

Hazardous reactions:
Exothermic reaction with amines (Part B).

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: No known significant effects or critical hazards.

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

Eye contact: An eye irritant.

Ingestion:

Irritating to mouth, throat and stomach.

Long Term Effects:

No information available for product.

Acute toxicity:

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxy propane and phenol	LD50 Dermal - Rat	>400mg/kg
	LD50 Oral – Rat	>2g/kg
1,2,4 tri methyl benzene	LD50 Oral – Rat	5g/kg

12. Ecological information

Avoid contaminating waterways.

Ecotoxicity:

Harmful to aquatic organisms.

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

UN No: 3082
Dangerous Goods Class: 9
Packing Group III
Proper Shipping Name: Environmentally hazardous substance, liquid n.o.s
Contains: Epoxy resin

IMDG

UN No: 3082
Dangerous Goods Class: 9
Packing Group III
Proper Shipping Name: Environmentally hazardous substance, liquid n.o.s
Contains: Epoxy resin

IATA

UN No: 3082
Dangerous Goods Class: 9
Packing Group III
Proper Shipping Name: Environmentally hazardous substance, liquid n.o.s
Contains: Epoxy resin

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

This Material Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd on behalf of its client.

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

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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Revised: 16 – Dec- 2008

MSDS No: 581

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

1. Identification of the substance/preparation and company

Product:

Sikafloor 381 AS N Part B

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

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.
R35: Causes severe burns.
R43: May cause sensitisation by skin contact.
R52/53: Harmful to aquatic organisms, may cause long term adverse effects in aquatic environment.

Safety Phrase(s):

S26: In case of contact with eyes, rise immediately with plenty of water and seek medical advise.
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 immediately.

3, Composition/information on ingredients

Chemical characterization:

Filled modified polyamine

Hazardous ingredients:

Ingredient	CAS No	Concentration
Benzyl alcohol	100-51-6	10 -30%
Cyclohexanemethanamine	2855-13-2	10 -30%
m-phenylenebis(methylamine)	1477 -55-0	10 -30%
Triethylenetetramine	112-24-3	1-10%
2,4,6 Tris(dimethyl aminomethyl)phenol	90-72-2	1-10%

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. 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.
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/m ³	ppm	mg/m ³	CATEGORY
m-phenylenebis(methylamine)	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: Liquid
Colour: Yellow
Odour: Amine odour

Data relevant to safety:

Solubility: Insoluble in cold water.
Density (20 °C): 1.03 kg/L
Flash Point (°C): >101

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.



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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 irritating and corrosive to mucous membranes and respiratory tract. Exposure to decomposition products may cause health hazards.

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: Harmful if swallowed. May cause burns to mouth, throat and stomach.

Long Term Effects:

No information available for product.

Acute toxicity :

Benzyl alcohol	LD 50 Oral Rat	1.5ml/kg
	LD 50 Intrarterial Rat	444mg/kg
	LD 50 Intravenous	53mg/kg
m-phenylenebis(methylamine)	LD50 Oral Rat	930mg/kg
Bis phenol A	LD50 Oral Rat	1200mg/kg
2,4,6-tris(dimethylaminoethyl)phenol	LD50 Oral Rat	1200mg/kg
	LD50 Dermal Rat	1280mg/kg

12. Ecological information

Avoid contaminating waterways.

Ecotoxicity:

Toxic to aquatic organisms

LC 50 460000 ug/L (fresh water) – Fish 96 hrs exposure.

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: 1760
Dangerous Goods Class: 8
Packing Group: II
Proper shipping name: Corrosive liquid n.o.s
Contains: Isophoronediamine, Xylenediamine

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: 1760
Dangerous Goods Class: 8
Packing Group: II
Proper shipping name: Corrosive liquid n.o.s
Contains: Isophoronediamine, Xylenediamine

IATA

UN No: 1760
Dangerous Goods Class: 8
Packing Group: II
Proper shipping name: Corrosive liquid n.o.s
Contains: Isophoronediamine, Xylenediamine

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.

16. Other information

Reason(s) For Issue: Revised

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