



1. Identification of the material and supplier

Names

Product name : Sikadur 330 A

Supplier

Supplier/Manufacturer : Sika Australia Pty. Ltd.
55 Elizabeth Street
(Locked Bag 482 BDC)
Wetherill Park, NSW 2164
Australia

Telephone no. : +61 2 9725 11 45

Fax no. : +61 2 9725 33 30

Emergency telephone number : +61 1800 033 111

Use of the substance/preparation : Chemical product for construction and industry

2. Hazards identification

Classification : Xi; R36/38
R43
N; R51/53

Risk phrases : R36/38- Irritating to eyes and skin.
R43- May cause sensitization by skin contact.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases : S24- Avoid contact with skin.
S37- Wear suitable gloves.
S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

Statement of hazardous/dangerous nature : HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

3. Composition/information on ingredients

Mixture : Yes.

reaction product: bisphenol A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	25068-38-6	30 - <60
1,4-bis(2,3-epoxypropoxy)butane	2425-79-8	10 - <30

Other ingredients, determined not to be hazardous according to NOHSC criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

First aid measures

Inhalation : Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion : Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious

4 . First aid measures

person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5 . Fire-fighting measures

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

Special exposure hazards : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

In a fire or if heated, a pressure increase will occur and the container may burst.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
metal oxide/oxides

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

Personal precautions : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8 . Exposure controls/personal protection

- Occupational exposure limits** : No exposure standard allocated.
- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Exposure controls**
- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9 . Physical and chemical properties

- Physical state** : Liquid.
- Color** : White.
- Odor** : Characteristic.
- Density** : 1.35 g/cm³ [20°C (68°F)]

10 . Stability and reactivity

Stability	: The product is stable.
Conditions to avoid	: Avoid release to the environment. Refer to special instructions/safety data sheet.
Materials to avoid	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 . Toxicological information

Potential acute health effects

Inhalation	: No known significant effects or critical hazards.
Ingestion	: Irritating to mouth, throat and stomach.
Skin contact	: Irritating to skin. May cause sensitization by skin contact.
Eye contact	: Irritating to eyes.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1,4-bis(2,3-epoxypropoxy)butane	LD50 Dermal	Rabbit	1130 mg/kg	-
	LD50 Oral	Rat	1134 mg/kg	-
	LD50 Oral	Mouse	1100 ug/kg	-

Conclusion/Summary : Not available.

Potential chronic health effects

Chronic toxicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Chronic effects

: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity

: No known significant effects or critical hazards.

Mutagenicity

: No known significant effects or critical hazards.

Teratogenicity

: No known significant effects or critical hazards.

Developmental effects

: No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation	: No specific data.
Ingestion	: No specific data.
Skin	: Adverse symptoms may include the following: irritation redness
Eyes	: Adverse symptoms may include the following: irritation watering redness

12 . Ecological information

Environmental effects : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Aquatic ecotoxicity

Conclusion/Summary : Not available.

Other ecological information

Biodegradability

Conclusion/Summary : Not available.

12 . Ecological information

Other adverse effects : No known significant effects or critical hazards.

13 . Disposal considerations

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14 . Transport information

ADG

Not regulated.

ADG Class : -

Label No. :

ADR

Not regulated.

Proper shipping name :

MDG

Not regulated.

Marine pollutant : No.

IATA

Not regulated.

15 . Regulatory information

Standard for the Uniform Scheduling of Drugs and Poisons

6

Control of Scheduled Carcinogenic Substances

Ingredient name

No listed substance

Schedule

Australia inventory (AICS) : All components are listed or exempted.

EU Classification : Xi; R36/38
R43
N; R51/53

16 . Other information

Person who prepared the MSDS : Validated by DeSilva on 09.10.2009.

Date of previous issue : No previous validation.

Indicates information that has changed from previously issued version.

Disclaimer

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.



Safety Data Sheet

According to NOHSC:2011(2003)

Version: 1.0

Page: 1 of 1

Revised: 05 June 2008

MSDS No: 211

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

1. Identification of the substance/preparation and company

Product:

Sikadur 330 Part B

Recommended use:

Two Component Epoxy Resin Adhesive

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:

Xn Harmful
C Corrosive

Risk Phrase(s):

R/22: Harmful if swallowed.
R34: Causes burns.
R43: May cause sensitisation by skin contact.
R52/53: Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Safety Phrases

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accident or if you feel unwell seek medical advice immediately.

3. Hazard identification

Hazard Category:

Chemical characterization:
Modified amine.

Hazardous ingredients:

Ingredient	CAS No	Concentration
Tri methylhexane 1,6 diamine	25620-58-0	60– 100%

4. First-aid measures

Inhalation:

Remove victim from exposure - avoid becoming a casualty. In case of possible respiratory irritation or if feeling unwell in case of prolonged exposure, obtain medical attention.



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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.

5. Fire-fighting measures

Specific hazards:

Thermal decomposition or burning may release carbon monoxide, carbon dioxide, nitrogen oxide 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 foam, dry chemical and carbon dioxide.

6. Accidental release measures

Small Spills:

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent 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:

Mix in a well ventilated area.
Avoid skin and eye contact and inhalation of vapour.

Storage:

Store in a cool, dry, well-ventilated place and out of direct sunlight.
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.

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: Paste
Colour: Grey
Odour: Amine odour

Data relevant to safety:

Solubility:	Insoluble in cold water..
Density (20 °C):	1.25 – 1.45g/cm ³
Vapour Pressure	0.002 kPa (0.015 mm Hg)
Flash Point (°C):	>102
PH	11

(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 information available

Incompatible Materials:

No information available.

Hazardous decomposition products:

Oxides of carbon and nitrogen, 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:

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

Skin contact: The material is corrosive to skin. Causes burns. The possibility of allergic sensitisation should be considered.

Eye contact: The material is corrosive to eyes. Causes burns.

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

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:

The material is harmful to aquatic organisms.

Persistence and degradability:

No information available.

Mobility:

The product is sparingly soluble in water.

13. Disposal considerations

Refer to State/Territory Land Waste Management Authority.

14. Transport information

ADG/ADR/RID

UN No:	1760
Dangerous Goods Class:	8
Packing Group:	III

Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (contains Triethylhexamethylene diamine)

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.



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IMDG

UN No: 1760
Dangerous Goods Class: 8
Packing Group: III

Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (contains Triethylhexamethylene diamine)

IATA

UN No: 1760
Dangerous Goods Class: 8
Packing Group: III

Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (contains) Triethylhexamethylene diamine

15. Regulatory information

Poisons Schedule (Aust):
Schedule 5

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

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