Material Safety Data Sheet



Identification of the material and supplier 1. Names Product name : Sikadur-31/41 Part A ADG : Environmentally hazardous substance, liquid, n.o.s. **Supplier** Supplier/Manufacturer : Sika (NZ) Ltd. PO Box 19 192 Avondale Auckland 1746 85-91 Patiki Road Avondale Auckland 1026 www.sika.co.nz Telephone no. : +64 9 820 2900 : +64 9 828 4091 Fax no. **Emergency telephone** : 0800 734 607 number Chemical product for construction and industry Use of the substance/preparation 2 Hazards identification Classification : Xi; R36/38 ERMA NZ Approval Code HSR002670 HSNO Hazard Classification 6.4A, 6.3A, 6.5B, 9.1B R43 N: R51/53 : R36/38- Irritating to eyes and skin. **Risk phrases** R43- May cause sensitisation 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

3. Composition/information on ingredients

Mixture : Yes.		
reaction product: bisphenol A-(epichlorhyc average molecular weight <= 700)	lrin) epoxy resin (number 25068-38-6	10 - <30
oxirane, mono[(C12-14-alkyloxy)methyl]de	erivs 68609-97-2	1 - <10
nonylphenol	25154-52-3	1 - <10

: HAZARDOUS SUBSTANCE, DANGEROUS GOODS.

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.

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4. First-aid measures		
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 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.
Hazchem code	: 3Z

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 spilt material. Avoid breathing vapour 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 spilt 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.

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6. Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Approach the 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 spilt 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. Alternatively, or if water-insoluble, 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 vapour 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 unlabelled 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.

Sikadur-31/41 Part A 8. Exposure controls/personal protection 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

will be necessary to reduce emissions to acceptable levels.

cases, fume scrubbers, filters or engineering modifications to the process equipment

9. Physical and chemical properties

-	
Physical state	: Liquid. [Paste.]
Colour	: White.
Odour	: Characteristic.
Vapour pressure	: 0.01 kPa (0.075 mm Hg)
Density	: 1.7 g/cm ³ [20°C (68°F)]
Flash point	: Closed cup: 170°C (338°F)
рН	: 6 [Conc. (% w/w): 50%]
Solubility	: Insoluble in the following materials: cold water.

10. Stability and reactivity

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

11. Toxicological information

Potential acute health effects

Folential acule health en	6013				
Inhalation	: No kr	own significant effect	s or critical haza	rds.	
Ingestion	: Irritati	ng to mouth, throat ar	nd stomach.		
Skin contact	: Irritati	ng to skin. May cause	e sensitisation by	/ skin contact.	
Eye contact	: Irritati	ng to eyes.			
Acute toxicity					
Product/ingredient nar Oxirane, mono[(C12-14- derivs.		Result yl] LD50 Oral	Species Rat	<mark>Dose</mark> 17100 mg/kg	Exposure -
nonylphenol		LD50 Dermal	Rabbit	2140 mg/kg	-
		LD50 Dermal	Rabbit	2140 uL/kg	-
		LD50 Oral	Mouse	75.63 mL/kg	-
		LD50 Oral	Mouse	1231 mg/kg	-
		LD50 Oral TDLo	Rat Rat	580 mg/kg	-
		Intraperitoneal	Ral	60 mg/kg	-
Conclusion/Summary	: Not a	vailable.			
Potential chronic health	effects				
Chronic toxicity					
Conclusion/Summary	: Not a	vailable.			
Carcinogenicity					
Conclusion/Summary	: Not a	vailable.			
Mutagenicity					
Conclusion/Summary	: Not a	vailable.			
Teratogenicity					
Conclusion/Summary	: Not a	vailable.			
Reproductive toxicity					
Conclusion/Summary	: Not a	vailable.			
Chronic effects		sensitized, a severe a ow levels.	allergic reaction	may occur when subs	equently exposed to
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11. Toxicological information

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/symp	<u>ptoms</u>
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
Target organs	: Contains material which may cause damage to the following organs: lungs, upper respiratory tract, skin, eye, lens or cornea.

12. Ecological information

Environmental effects	: Toxic to aquatic organ environment.	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
Aquatic ecotoxicity				
Product/ingredient name nonylphenol	Test -	Result Acute EC50 203 to 231 ug/L Fresh water	Species Fish - Bluegill - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling) - 1 years - 23 mm - 294 mg	Exposure 96 hours
	-	Acute EC50 190 to 210 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - 24 hours	48 hours

	Juvenile (Fledgling, Hatchling, Weanling) - 1 years - 23 mm - 294 mg	
Acute EC50 190 to 210 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - 24 hours	48 hours
Acute EC50 109 to 118 ug/L Fresh water	Fish - Rainbow	96 hours
Acute EC50 104 to 124 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - 24 hours	48 hours
Acute EC50 96 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - FRY - 17.1 mm - 81.6 mg	96 hours
Acute LC50 900 ug/L Marine water	Fish - Atlantic salmon - Salmo salar - Juvenile (Fledgling, Hatchling, Weanling) - 4 g	96 hours
Acute LC50 221 to 236 ug/L Fresh water	Fish - Rainbow	96 hours

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12. Ecological information

14. Transport inf	ormation			
Methods of disposal	must be disposed of in via a licensed waste dis by-products should at a protection and waste di	y retain some product res a safe way. Dispose of s sposal contractor. Dispos all times comply with the r sposal legislation and an spersal of spilt material a	sidues. This materi urplus and non-rec sal of this product, s equirements of env y regional local aut	al and its container yclable products olutions and any rironmental hority
13. Disposal con	siderations			
Other adverse effects	: No known significant effects or critical hazards.			
Conclusion/Summary	: Not available.			
Biodegradability	<u>.</u>			
Conclusion/Summary Other ecological information	: Not available.			
O an alvasian (O	. Net en elle ble		mg	
			17.1 mm - 81.6	
		water	Pimephales promelas - FRY -	
		to 141 ug/L Fresh	minnow -	
	-	Acute LC50 128	35 days - 220 mg Fish - Fathead	96 hours
		to 187 ug/L Fresh water	Pimephales promelas - 31 to	
	-	Acute LC50 135	Fish - Fathead	96 hours
			(Fledgling, Hatchling, Weanling) - 1 years - 23 mm - 294 mg	
		to 238 ug/L Fresh water	Lepomis macrochirus - Juvenile	
	-	Acute LC50 209	Fingerling - 27.2 mm - 241 mg Fish - Bluegill -	96 hours

ADG	
UN number	: UN3082
ADG Class	: 9
Packing group	: III
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s.
Contains	: Epoxide resin
Label No.	: 9
Hazchem code	: 3Z
ADR	
UN number	: UN3082
ADR Class	: 9
Classification code	: M6
Packing group	: III
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s.
Contains	: Epoxide resin
Label No.	: 9

<u>IMDG</u>

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14. Transport information

III II anopoitin	normation
UN number	: UN3082
IMDG Class	: 9
Packing group	: III
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s.
Contains	: Epoxide resin
Emergency schedules (EmS)	: F-A, S-F
Marine pollutant	: No.
Label no.	: 9
IATA	
UN number	: UN3082
IATA Class	: 9
Packing group	: 111
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s.
Contains	: Epoxide resin
Label no.	: 9

15. Regulatory information

Standard for the Uniform Sc	heduling of Drugs and Poisons	
Not regulated.		
Control of Scheduled Carcin	<u>iogenic Substances</u>	
Ingredient name No listed substance		<u>Schedule</u>
Australia inventory (AICS)	: All components are listed or exempted.	
EU Classification	: Xi; R36/38 R43 N; R51/53	
16 Other inform	ation	

16. Other information

Person who prepared the : Validated by Hunter on 27.09.2010. MSDS

Date of previous issue : 27.09.2010.

✓ Indicates information that has changed from previously issued version.

Disclaimer

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