Material Safety Data Sheet

Sikadur 42 & 52 Part A

COMPANY DETAILS

COMPANY:	Sika (NZ) Ltd
ADDRESS:	85-91 Patiki Road, Avondale, Auckland
TELEPHONE:	(09) 820 2900
EMERGENCY AFTER HOURS:	0800 734 607
FAX NUMBER:	(09) 828 4091

IDENTIFICATION

PRODUCT NAME:	Sikadur 42 & 52 Part A	
OTHER NAMES:		
MANUFACTURER'S PRODUCT CODE:		
U.N. NUMBER:	Free	
DANGEROUS GOODS CLASS AND SUBSIDIARY RISK:	Not applicable	
HAZCHEM CODE:	Not applicable	
POISONS SCHEDULE NUMBER:	5	
USE:	Sikadur-42	is a pourable 3 component epoxy resin based grout used in the precision grouting of plant & equipment etc.
	Sikadur-52	is a 2 component epoxy resin for injecting cracks in concrete.

PHYSICAL DESCRIPTION/PROPERTIES:

APPEARANCE:	Clear, pale yellow, low viscosity liquid with a mild diluent odour.
BOILING POINT	Boil at >200
VAPOUR PRESSURE:	<7 (pascals @ 20 deg. C)
SPECIFIC GRAVITY:	1.13 (g/cc @ 29 deg. C)
FLASHPOINT:	>95 (deg. C Closed cup method)
FLAMMABILITY LIMITS:	Upper None measured Lower None (% in air)
SOLUBILITY IN WATER:	Insoluble (g/L @ 20 deg. C)

ADVICE NOTE:

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OTHER PROPERTIES:

Decomposition temperature	:	>200°C
pH	:	Approx. 7 at 1:1 mixture
Viscosity	:	800 - 1200 mPa.s at 25°C

INGREDIENTS:

Chemical Name:	*CAS Number:*	*Proportion:*
Diglycidyl ether of Bisphenol A	*25068-38-6*	*<60%*
Glycidyl ether of C12-C14 alcohols	*68609-97-2*	*<10%*
Non-hazardous ingredients	*-*	*to 100%*

Trace amount (typically <10ppm) of Epichlorohydrin remain in the epoxy resins as a result of the chemical reactions in which they are made.

HEALTH HAZARD INFORMATION

HEALTH EFFECTS:

Acute

Swallowed:	Product is of low toxicity. (Oral, Rat LD50) >3400 mg/kg.
Eye:	May cause very mild irritation to the eyes.
Skin:	Mild irritation may result from prolonged contact.
Inhaled:	May cause slight irritation if inhaled.
Chronic:	*Susceptible individuals may develop allergic reactions such as dermatitis or asthma-like symptoms on a single significant skin exposure or may become sensitised to the material on repeated contact.*
	If cured material made using this product is to be cut or sanded, ensure an appropriate dust mask (Class P3, disposable) is worn. In addition industrial safety glasses or goggles should also be worn.
	Epoxy resins are made in reactions involving Epichlorohydrin. Therefore it must be assumed that a very small amount of the material will remain in the final product. Epichlorohydrin has been classified as a category 2 carcinogen. Hence it is essential that all forms of exposure be kept to an absolute minimum.

FIRST AID:

Swallowed:	Affected person should drink 500-800ml water, if possible with suspended activated carbon for medical use. In case of spontaneous vomiting be sure that vomitus can freely drain. Give nothing by mouth to an unconscious person.
Eye:	Hold eyes open. Flood with water for at least 15 minutes. See a doctor.
Skin:	Remove contaminated clothing. wash affected skin area with soap and water. Do not use solvents.
Inhaled:	Remove to fresh air. Give oxygen if required.
First Aid Facilities:	Eye wash station. Showering facility.

ADVICE TO DOCTOR: **No specific antidote. Treat Symptomatically**

PRECAUTIONS FOR USE

EXPOSURE STANDARDS:

TLV	2ppm, 7.6 mg/m^3 (Epichlorohydrin, skin)
STEL	None established

Avoid exceeding exposure limits by use of ventilation and / or personal protection.

Follow good working practice : handle with care, avoid ingestion, inhalation, eye or skin contact. Do not smoke while using this product. Wash hands with soap and water before eating, drinking, smoking or using toilet facilities.

ENGINEERING CONTROLS: Wherever possible, the workplace must be ventilated sufficiently to ensure that exposure limits are met.

PERSONAL PROTECTION: Avoid contact with skin and eyes by wearing long impervious gloves, (Rubber, Neoprene, PVC complying to AS/NZS 2161) and industrial safety glasses. Respiratory protection complying with AS/NZS 1715, 1716 should be worn if ventilation at the workplace is inadequate. Apply barrier creams to exposed skin areas.

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: Product is not flammable, therefore does not need to be handled, used or stored in a flameproofed area.

SAFE HANDLING INFORMATION

STORAGE & TRANSPORT:

General : Product can be handled and stored safely

Storage : With only minimal hazard to operators

UN Number : Free
Dangerous Goods Class
and Subsidiary Risk : Not applicable
Packaging Group : Not applicable
HAZCHEM Code : Not applicable
IATA Class : Free
IMDG Reference : Free
Minimum temperature : 5°C
Maximum temperature : 35°C
Incompatible DG Classes : Classes 5.1, 5.2
Incompatible Receptacle : Unapproved plastic containers
Emergency Substances : Strong oxidising agents, acids or bases

Product should be stored in properly resealed containers if not all used in the first application. Product should be stored in a cool, dry place.

SPILLS & DISPOSAL:

In case of spill, wear personal protection as indicated above. Spilt material should be absorbed into dry, inert material (eg sand), which then can be put into appropriately labelled drums. The wasted material can be disposed of by incineration (preferably high temperature), by an approved agent according to local regulations.

FIRE/EXPLOSION HAZARD:

Extinguishing Media: Water mist, foam, Carbon Dioxide, dry powder.

Hazardous combustion products: Carbon Monoxide, Carbon Dioxide and other possibly toxic gases and vapours on burning.

Product will not decompose explosively.

Product as received will not present a dust explosion hazard. However, should cured material made using this product be machined or sanded, a dust explosion hazard may be created. Therefore all dust generated should be removed as quickly as possible, preferably by using a vacuum cleaner.

OTHER INFORMATION:

Environment Data:

LC50 / 96 hour / fish > 2.4 mg/L
Moderately toxic to fish.

LC50 / 96 hour / daphnia > 3.6 mg/L
Moderately toxic to invertebrate species.

Toxicity to Bacteria :IC50 > 100 mg/L
Slightly toxic.

OECD Biological degradation : Not readily biodegradable.

Prevent spillage from entering waterways or drains.

CONTACT POINT:

Operations Manager (09) 820 2900 or (09) 820 1432.

Material Safety Data Sheet

Sikadurs-42 & 52 Components B
Normal Pot Life

COMPANY DETAILS

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ADDRESS:	85-91 Patiki Road, Avondale, Auckland
TELEPHONE:	(09) 820 2900
EMERGENCY AFTER HOURS:	0800 734 607
FAX NUMBER:	(09) 828 4091

IDENTIFICATION

PRODUCT NAME:	Sikadurs-42 & 52 Components B Normal	
OTHER NAMES:	Corrosive Liquid N.O.S. (contains TETA)	
MANUFACTURER'S PRODUCT CODE:	Sikadur-340	
U.N. NUMBER:	1760	
DANGEROUS GOODS CLASS AND SUBSIDIARY RISK:	Class 8 None	
HAZCHEM CODE:	2R	
POISONS SCHEDULE NUMBER:	5	
USE:	Sikadur-42	is a pourable 3 component epoxy resin based grout used in the precision grouting of plant & equipment etc.
	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:	> 200ºC / < 0ºC
VAPOUR PRESSURE:	0.1hPa @ 20ºC
SPECIFIC GRAVITY:	1.05
FLASHPOINT:	~ 94ºC DIN 51758
FLAMMABILITY LIMITS:	Ignition temperature > 350ºC
SOLUBILITY IN WATER:	@ 20ºC solubility ~ 30% v/v.

ADVICE NOTE:
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OTHER PROPERTIES:

pH @ 20ºC 100g / Litre H^20	12
Viscosity @ 20ºC	30 mPa.s
Reactivity	Reacts with strong acids and strong oxidising agents exothermically. Thermal decomposition @>250ºC produces ammonia, other nitrogen compounds, carbon monoxide and carbon dioxide.

INGREDIENTS:

Chemical Name:	*CAS Number:*	*Proportion:*
benzyl alcohol	*100-51-6*	*<40%*
IPD	*2855-13-2*	*<20%*
TETA	*112-24-3*	*<15%*
aliphatic polyamine adduct	*-*	*<15%*
Cycloaliphatic amine derivative	*-*	*<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 0800 734 607. 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 0800 734 607.

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:	None determined
		STEL:	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/NZS 1716 Respiratory Devices and used in accordance with AS/NZS 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.

Avoid contact with skin and eyes by wearing impervious gloves (rubber, Neoprene, PVC complying to AS/NZS 2161) and industrial safety glasses. Respirators should comply with Australian Standard AS/NZS 1716 *Respiratory Protective Devices* or an equivalent and should be used in accordance with Australian Standard AS/NZS 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:	Corrosive Dangerous Goods Class 8	No subsidiary risk.
	Packing Group:	III
	UN Number:	1760
	Correct Shipping Name:	Corrosive Liquid N.O.S. (cont. TETA)

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 licences incinerator.

FIRE/EXPLOSION HAZARD:

Hazchem Code: 2R Combustible liquid.
Produces oxides of nitrogen and carbon on combustion.
Fire fighting media-foam, carbon dioxide or dry powder.

OTHER INFORMATION:

Animal toxicity data for TETA

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

CONTACT POINT:

Operations Manager (09) 820 2900 or (09) 820 1432.