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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product id	entifier
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Trade name

: Sikafloor®-381 Part A

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use : Epoxy coating, Product is not intended for consumer use

1.3 Details of the supplier of the safety data sheet

Company name of supplier	:	Sika South Africa (Pty) Ltd 9 Hocking Place Westmead 3608 Pinetown South Africa
Telephone	:	+27 (0)31 792 6500
Telefax	:	+27 (0)31 700 1760
E-mail address of person responsible for the SDS	:	headoffice@za.sika.com

1.4 Emergency telephone number

+27 82 490 9409

SECTION 2: Hazards identification

Type of product

: Mixture

2.1 Classification of the substance or mixture

Classification (SANS 10234)

Skin corrosion, Sub-category 1C Serious eye damage, Category 1 Skin sensitisation, Category 1 Reproductive toxicity, Category 1B Long-term (chronic) aquatic hazard, Category 2

- H314: Causes severe skin burns and eye damage.
- H318: Causes serious eye damage.
- H317: May cause an allergic skin reaction.
- H360F: May damage fertility.
- H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (SANS 10234)

Hazard pictograms		
Signal word	: Danger	
Hazard statements	: H314 Causes severe skin burns and eye H317 May cause an allergic skin reaction	

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	H360F H411	May damage fertility	with long lasting effects.
Precautionary statements :	Prevention:		
	P201 P273 P280		environment. /es/ protective clothing/
	Response: P303 + P361 + P3		hair): Take off immedi-
	P304 + P340 + P3	with water.	ed clothing. Rinse skin emove person to fresh
		air and keep comfor mediately call a POI	table for breathing. Im- SON CENTER/ doctor.
	P305 + P351 + P3	with water for severa	esent and easy to do. mediately call a
	P308 + P313	IF exposed or conce vice/ attention.	rned: Get medical ad-
	P391	Collect spillage.	

Hazardous components which must be listed on the label:

reaction product: bisphenol F-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

Trimethylolpropane triglycidylether reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (SANS 10234)	Concentration (% w/w)
reaction product: bisphenol F- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	9003-36-5 01-2119454392-40- XXXX	Skin Irrit.2; H315 Skin Sens.1; H317 Aquatic Chronic2; H411	>= 10 - < 20



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Trimethylolpropane triglycidylether	Not Assigned 01-2120078341-60- XXXX	Skin Corr.1C; H314 Eye Dam.1; H318 Skin Sens.1B; H317 Muta.2; H341 Repr.1B; H360F Aquatic Chronic2; H411	>= 5 - < 1
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	25068-38-6 01-2119456619-26- XXXX	Eye Irrit.2; H319 Skin Irrit.2; H315 Skin Sens.1; H317 Aquatic Chronic2; H411	>= 2,5 - <
benzyl alcohol	100-51-6 202-859-9 01-2119492630-38- XXXX	Acute Tox.4; H302 Acute Tox.4; H332 Eye Irrit.2; H319	>= 2,5 - <
p-tert-butylphenyl 1-(2,3- epoxy)propyl ether	3101-60-8 221-453-2 01-2119959496-20- XXXX	Skin Sens.1; H317 Aquatic Chronic2; H411	>= 0,25 - <

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	: Move to fresh air. Consult a physician after significant exposure.
In case of skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficul- ty.
In case of eye contact	 Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Keep eye wide open while rinsing.



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If swallowed	: Do not induce vomiting with Rinse mouth with water. Do not give milk or alcoholid	
		th to an unconscious person.
I.2 Most important symptoms an	d effects, both acute and dela	yed
Symptoms	: Allergic reactions	
	Dermatitis See Section 11 for more de and symptoms.	tailed information on health effects
Risks	: Health injuries may be delay	ved.
	corrosive effects sensitising effects	
	toxic effects for reproduction	ı
	May cause an allergic skin r	
	Causes serious eye damage May damage fertility.	е.
	Causes severe burns.	
SECTION 5: Firefighting meas	ures	
5.1 Extinguishing media		
Suitable extinguishing media		ater spray/water jet/carbon diox- tant foam/chemical powder for
Suitable extinguishing media	ide/sand/foam/alcohol resister extinction.	
Suitable extinguishing media	ide/sand/foam/alcohol resist extinction. the substance or mixture	
Suitable extinguishing media 5.2 Special hazards arising from Specific hazards during fire-	ide/sand/foam/alcohol resist extinction. the substance or mixture : Do not allow run-off from fire	tant foam/chemical powder for
Suitable extinguishing media 5.2 Special hazards arising from Specific hazards during fire- fighting Hazardous combustion prod-	 ide/sand/foam/alcohol resistent extinction. the substance or mixture Do not allow run-off from fire courses. 	tant foam/chemical powder for
Suitable extinguishing media 5.2 Special hazards arising from Specific hazards during fire- fighting Hazardous combustion prod- ucts	 ide/sand/foam/alcohol resistentiation. the substance or mixture Do not allow run-off from fire courses. No hazardous combustion particular substance of the s	tant foam/chemical powder for
 Suitable extinguishing media 5.2 Special hazards arising from Specific hazards during fire- fighting Hazardous combustion prod- ucts 5.3 Advice for firefighters Special protective equipment 	 ide/sand/foam/alcohol resistention. the substance or mixture Do not allow run-off from firecourses. No hazardous combustion p In the event of fire, wear selentiation of the substance of t	tant foam/chemical powder for e fighting to enter drains or water products are known f-contained breathing apparatus.

be disposed of in accordance with local regulations.

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SECTION 6: Accidental release measures

Personal precautions	: Use personal protective equipment. Deny access to unprotected persons.
6.2 Environmental precautions	
Environmental precautions	: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3 Methods and material for conta	ainment and cleaning up
Methods for cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

6.1 Personal precautions, protective equipment and emergency procedures

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	 Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Pregnant women or women of child-bearing age should not be exposed to this product. Follow standard hygiene measures when handling chemical products
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.



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7.2 Conditions for safe storage,	inc	luding any incompatibilities	
Requirements for storage areas and containers	:	Keep container tightly closed in a d place. Containers which are opene sealed and kept upright to prevent ance with local regulations.	d must be carefully re-
Further information on stor- age stability	:	No decomposition if stored and app	blied as directed.
7.3 Specific end use(s)			
Specific use(s)	:	Consult most current local Product use.	Data Sheet prior to any

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment	
Eye protection :	Safety glasses with side-shields conforming to EN166 Eye wash bottle with pure water Wear eye/face protection.
Hand protection :	Chemical-resistant, impervious gloves complying with an ap- proved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manu- facturer specifications.
	Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves (> 0,1 mm) Contaminated gloves should be removed. Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min.
Skin and body protection :	Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionaly recommended for mixing and stirring work.
Respiratory protection :	No special measures required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

: liquid



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Colour Odour Odour Threshold	:	various epoxy-like No data available	
рН	:	Not applicable	
Melting point/range / Freezing point	:	No data available	
Boiling point/boiling range	:	No data available	
Flash point	:	> 101 °C Method: closed cup	
Evaporation rate	:	No data available	
Flammability (solid, gas)	:	No data available	
Upper explosion limit / Upper flammability limit	:	No data available	
Lower explosion limit / Lower flammability limit	:	No data available	
Vapour pressure	:	0,1 hPa	
Relative vapour density	:	No data available	
Density	:	ca. 1,6 g/cm3 (20 °C)	
Solubility(ies) Water solubility Solubility in other solvents	:	insoluble No data available	
Partition coefficient: n- octanol/water	:	No data available	
Auto-ignition temperature	:	Not applicable	
		No data available	
Decomposition temperature	:	No data available	
Viscosity Viscosity, dynamic	:	No data available	
Viscosity, kinematic	:	> 20,5 mm2/s (40 °C)	
Explosive properties	:	No data available	
Oxidizing properties	:	No data available	



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9.2 Other information No data available		
SECTION 10: Stability and re	eactivity	
10.1 Reactivity No dangerous reaction know	n under conditions of normal use.	
10.2 Chemical stability The product is chemically st	able.	
10.3 Possibility of hazardous r		
Hazardous reactions	: Stable under recommended s	storage conditions.
10.4 Conditions to avoid Conditions to avoid	: No data available	
10.5 Incompatible materials		
Materials to avoid	: No data available	
No decomposition if stored a SECTION 11: Toxicological	information	
11.1 Information on toxicologic	areffects	
Acute toxicity Not classified based on avai	lable information.	
<u>Components:</u> Trimethylolpropane triglyc Acute oral toxicity	idylether: : LD50 Oral (Rat): 3.398 mg/kg	
Acute dermal toxicity	: LD50 Dermal (Rabbit): > 2.000) mg/kg
reaction product: bisphen weight ≤ 700):	ol-A-(epichlorhydrin); epoxy resin	(number average molecular
Acute oral toxicity	: LD50 Oral (Rat): > 5.000 mg/k	g
Acute dermal toxicity	: LD50 Dermal (Rabbit): > 20.00	00 mg/kg
benzyl alcohol: Acute oral toxicity	: LD50 Oral (Rat): 1.620 mg/kg	
Acute inhalation toxicity	: LC50 (Rat): > 4,178 mg/l Exposure time: 4 h	



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	Test atmosphere: dust/mist	
p-tert-butylphenyl 1-(2,3-epo Acute oral toxicity	xy)propyl ether: : LD50 Oral (Rat): > 5.000 mg/kg	
Acute inhalation toxicity	: LC50 (Rat): 3.466 mg/l Exposure time: 4 h Test atmosphere: dust/mist	
Acute dermal toxicity	: LD50 Dermal (Rabbit): 6.000 mg/kg	
Skin corrosion/irritation Causes severe burns.		
Serious eye damage/eye irrit Causes serious eye damage.	ation	
Respiratory or skin sensitisa Skin sensitisation: May cause Respiratory sensitisation: Not		۱.
Germ cell mutagenicity Not classified based on availal	ble information.	
Carcinogenicity Not classified based on availal	ble information.	
Reproductive toxicity May damage fertility.		
STOT - single exposure Not classified based on availal	ble information.	
STOT - repeated exposure Not classified based on availal	ble information.	
Aspiration toxicity Not classified based on availal	ble information.	
SECTION 12: Ecological infor	mation	
12.1 Toxicity		
Components:		
Trimethylolpropane triglycid	ylether:	
Toxicity to algae	: ErC50 (Pseudokirchneriella subcapi Exposure time: 72 h	tata (microalgae)): 9 mg/l
Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)	: EC50: 3,7 mg/l Exposure time: 48 d Species: Daphnia magna (Water fle	a)



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weight ≤ 700):	A-(epichlorhydrin); epoxy resin (number average molecular
Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 1,8 mg/l Exposure time: 48 h
benzyl alcohol:	
Toxicity to fish	: LC50 (Fish): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
12.2 Persistence and degradabili t No data available	ty
12.3 Bioaccumulative potential No data available	
12.4 Mobility in soil No data available	
12.5 Results of PBT and vPvB as	sessment
Product:	
Assessment	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Other adverse effects	
Product:	
Additional ecological infor- mation	 An environmental hazard cannot be excluded in the event o unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

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Product

 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.



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	Dispose of surplus and non-rec waste disposal contractor. Disposal of this product, solution at all times comply with the requ protection and waste disposal le local authority requirements. Avoid dispersal of spilled materi soil, waterways, drains and sew	ns and any by-products should irements of environmental egislation and any regional al and runoff and contact with
European Waste Catalogue	: 08 01 11* waste paint and varn vents or other dangerous substa	
Contaminated packaging	: 15 01 10* packaging containing by dangerous substances	residues of or contaminated

SECTION 14: Transport information

ADR	:	UN 1760
IMDG	:	UN 1760
ΙΑΤΑ	:	UN 1760
14.2 UN proper shipping nan	ne	
ADR	:	CORROSIVE LIQUID, N.O.S. (Trimethylolpropane triglycidylether, epoxy resin)
IMDG	:	CORROSIVE LIQUID, N.O.S. (Trimethylolpropane triglycidylether, epoxy resin)
ΙΑΤΑ	:	Corrosive liquid, n.o.s. (Trimethylolpropane triglycidylether, epoxy resin)
14.3 Transport hazard class(es)	
ADR	:	8
IMDG	:	8
ΙΑΤΑ	:	8
14.4 Packing group		
ADR Packing group Classification Code Hazard Identification Num Labels Tunnel restriction code IMDG		III C9 80 8 (E)
Packing group	:	III



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Labels EmS Code Remarks	:	8 F-A, S-B Alkalis	
IATA (Cargo) Packing instruction (cargo aircraft)	:	856	
Packing instruction (LQ) Packing group Labels	:	Y841 III Corrosive	
IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ)	:	852 Y841	
Packing group Labels	:	III Corrosive	
14.5 Environmental hazards			
ADR Environmentally hazardous	:	yes	
IMDG Marine pollutant	:	yes	
IATA (Passenger) Environmentally hazardous	:	yes	
IATA (Cargo) Environmentally hazardous	:	yes	
14.6 Special precautions for use	r		

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	:	Not applicable
REACH - Candidate List of Substances of Very High	:	None of the components are listed
Concern for Authorisation (Article 59).		(=> 0.1 %).
REACH - List of substances subject to authorisation	:	Not applicable
Country 74 10000019760		12 / 15



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(Annex XIV)		
Regulation (EC) No 1005/2009 or plete the ozone layer	n substances that de- :	Not applicable
Regulation (EC) No 850/2004 on lutants	persistent organic pol- :	Not applicable
Regulation (EC) No 649/2012 of t ment and the Council concerning of dangerous chemicals		Not applicable
REACH Information:	All substances contained - registered by our upstrea - registered by us, and/or - excluded from the regula - exempted from the regis	am suppliers, and/or ation, and/or
Seveso III: Directive 2012/18/EU major-accident hazards involving E2		t and of the Council on the control of ARDS
Volatile organic compounds :	Law on the incentive tax for (VOCV) Volatile organic compound	or volatile organic compounds ds (VOC) content: 5,69 %

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H341	: Suspected of causing genetic defects.
H360F	: May damage fertility.
H411	: Toxic to aquatic life with long lasting effects.

Full text of H-Statements

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Full text of other abbreviations

Acute Tox. Aquatic Chronic Eye Dam. Eye Irrit. Muta. Repr. Skin Corr. Skin Corr. Skin Irrit. Skin Sens. ADR CAS DNEL EC50 GHS IATA IMDG LD50	Dangerous Goods by R Chemical Abstracts Ser Derived no-effect level Half maximal effective of Globally Harmonized S International Air Transp International Maritime O	oncerning the International Carriage of oad vice concentration ystem	
LC50	once, which causes the test animals) : Median lethal concentra	death of 50% (one half) of a group of ation (concentrations of the chemical in test animals during the observation	
MARPOL	: International Conventio	n for the Prevention of Pollution from	
OEL PBT PNEC REACH SVHC	 Occupational Exposure Persistent, bioaccumula Predicted no effect condition Regulation (EC) No 190 and of the Council of 18 istration, Evaluation, Aucals (REACH), establish Substances of Very Hig 	Ships, 1973 as modified by the Protocol of 1978 Occupational Exposure Limit Persistent, bioaccumulative and toxic Predicted no effect concentration Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Reg- istration, Evaluation, Authorisation and Restriction of Chemi- cals (REACH), establishing a European Chemicals Agency Substances of Very High Concern	
vPvB	: Very persistent and ver	y bioaccumulative	
Classification of the mixture	e:	Classification procedure:	
Skin Corr. 1C	H314	Calculation method	
Eye Dam. 1	H318	Calculation method	
Skin Sens. 1	H317	Calculation method	
Repr. 1B	H360F	Calculation method	
Aquatic Chronic 2	H411	Calculation method	

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 product data sheet prior to any use and processing.



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