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

1.1 Product identifier

Trade name : Sikadur[®]-31 + (A)

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

Product use : Adhesive

1.3 Details of the supplier of the safety data sheet

Company name of supplier	:	Sika Limited Watchmead Welwyn Garden City
		Hertfordshire. AL7 1BQ
Telephone	:	+44 (0)1707 394444
Telefax	:	+44 (0)1707 329129
E-mail address of person responsible for the SDS	:	EHS@uk.sika.com

1.4 Emergency telephone number

National Chemical Emergency Centre (NCEC) 24 Hour Emergency Telephone Number +44 870 190 6777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Cat-	H412: Harmful to aquatic life with long lasting ef-
egory 3	fects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:		
Signal word	:	Warning	
Hazard statements	:	H315 H317 H319 H412	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting ef-



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		fects.	
Precautionary statements :	P101	If medical advice is needed, hav	/e product
	P102	Keep out of reach of children.	
	Prevention:		
	P261	Avoid breathing dust/ fume/ gas pours/ spray.	/ mist/ va-
	P264	Wash skin thoroughly after hand	dling.
	P280	Wear protective gloves/ eye pro protection.	tection/ face
	Disposal:		
	P501	Dispose of contents/container ir with local regulation.	accordance

Hazardous components which must be listed on the label:

bis-[4-(2,3-epoxipropoxi)phenyl]propane oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
Chomical Hamo	EC-No.	Classification	(% w/w)
	Registration number		(/0 10/10)
bis-[4-(2,3- epoxipropoxi)phenyl]propane	1675-54-3 216-823-5 01-2119456619-26- XXXX	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 10 - < 20
		specific concentration limit Eye Irrit. 2; H319 >= 5 % Skin Irrit. 2; H315 >= 5 %	
oxirane, mono[(C12-14-	68609-97-2	Skin Irrit. 2; H315	>= 5 - < 10
alkyloxy)methyl] derivs.	271-846-8 01-2119485289-22- XXXX	Skin Sens. 1; H317	
Substances with a workplace expo	sure limit :		
Limestone Contains: Quartz (SiO2) <5µm >= 0,1 %	1317-65-3 215-279-6		>= 25 - < 40
Quartz (SiO2)	14808-60-7 238-878-4		>= 25 - < 40
calcium carbonate	471-34-1 207-439-9 01-2119486795-18- XXXX		>= 5 - < 10

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.



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In case of skin contact	:	Take off contaminated clothing and shoes Wash off with soap and plenty of water. If symptoms persist, call a physician.	immediately.
In case of eye contact	:	Immediately flush eye(s) with plenty of wat Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialis	
If swallowed	:	Do not induce vomiting without medical ad Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an uncon	
4.2 Most important symptoms a	nd	effects, both acute and delayed	
Symptoms	:	Allergic reactions Excessive lachrymation Erythema Dermatitis See Section 11 for more detailed informati and symptoms.	on on health effects
Risks	:	irritant effects sensitising effects	
		Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.	
4.3 Indication of any immediate Treatment	me :	dical attention and special treatment need Treat symptomatically.	ded
SECTION 5: Firefighting mea	su	res	
5.1 Extinguishing media			
Suitable extinguishing media	:	In case of fire, use water/water spray/wate ide/sand/foam/alcohol resistant foam/chen extinction.	
5.2 Special hazards arising from	n th	e substance or mixture	
		No hazardous combustion products are kn	Iown
5.3 Advice for firefighters			
-	:	In the event of fire, wear self-contained bre	eathing apparatus.
Country GB 100000016544			4 / 15



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Further information	: Standard procedure for chemical fires.			
SECTION 6: Accidental release	measures			
6.1 Personal precautions, protecti	ve equipment and emergency procedures			
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 sew If the product contaminates rivers and lakes or respective authorities. 			
6.3 Methods and material for conta	6.3 Methods and material for containment and cleaning up			
Methods for cleaning up	 Pick up and arrange disposal without creating Keep in suitable, closed containers for disposa 			

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	:	Do not breathe vapours/dust. 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 asth- ma, 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 ap- plication area. 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, including any incompatibilities

Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Store in accordance with local regulations.
Further information on stor- age stability	:	No decomposition if stored and applied as directed.
2 Enacific and use(a)		

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters *	Basis *
Limestone	1317-65-3	TWA (inhalable dust)	10 mg/m3	GB EH40
	dust and inhal will be collected the methods d pling and grav aerosols., The health includes in air equal to dust or 4 mg.n any dust will b above these le WELs and exp limits., Most in sizes. The ber after entry into sponse that it HSE distinguis termed 'inhala the fraction of during breathin respiratory trac penetrates to t tions and expla dusts contain of the relevant lin short-term exp	ation: For the purpo able dust are those ad when sampling is escribed in MDHS1 imetric analysis or r COSHH definition s dust of any kind w or greater than 10 n n-3 8-hour TWA of r e subject to COSHH evels. Some dusts h posure to these mus dustrial dusts conta haviour, deposition a the human respirate elicits, depend on the shes two size fraction ble' and 'respirable', airborne material the ng and is therefore a ct. Respirable dust a the gas exchange re anatory material are components that ha nits should be compo- posure limit is listed, e limit should be use	fractions of airbor undertaken in act 4/4 General meth espirable, thoracid of a substance ha hen present at a c ng.m-3 8-hour TW respirable dust. Th i f people are exp ave been assigne at comply with the in particles of a w and fate of any pai tory system, and the nature and size ons for limit-setting ., Inhalable dust a at enters the nose available for depose approximates to the egion of the lung. I e given in MDHS14 ve their own assigned a figure three time	ne dust which cordance with ods for sam- c and inhalable zardous to concentration /A of inhalable is means that oosed to dust d specific appropriate ide range of rticular particle he body re- of the particle. purposes pproximates to a and mouth sition in the he fraction that Fuller defini- 4/4., Where gned WEL, all no specific
		TWA (Respirable dust)	4 mg/m3	GB EH40
calcium carbonate	471-34-1	TWA (inhalable dust)	10 mg/m3	GB EH40
		ation: For the purpo able dust are those		

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the methods de pling and gravi aerosols., The health includes in air equal to o dust or 4 mg.m any dust will be above these le WELs and exp limits., Most ind sizes. The beh after entry into sponse that it e HSE distinguis termed 'inhalat the fraction of a during breathin respiratory trac penetrates to t tions and expla dusts contain o the relevant lim short-term exp	d when sampling is escribed in MDHS1 metric analysis or re COSHH definition of a dust of any kind when or greater than 10 m a subject to COSHH vels. Some dusts has osure to these mus dustrial dusts contain aviour, deposition at the human respirate elicits, depend on the hes two size fraction oble' and 'respirable'. airborne material that ag and is therefore at the gas exchange re anatory material are components that has hits should be comp osure limit is listed, limit should be use	4/4 General metho espirable, thoracio of a substance has hen present at a c ng.m-3 8-hour TW espirable dust. The l if people are exp ave been assigne t comply with the in particles of a wi and fate of any par ory system, and the e nature and size ns for limit-setting , Inhalable dust and at enters the nose available for depose approximates to the given in MDHS14 ve their own assig lied with., Where a figure three time d.	bds for sam- c and inhalable zardous to concentration A of inhalable is means that is means that is means that is means that is means that osed to dust d specific appropriate de range of ticular particle ne body re- of the particle. purposes proximates to a and mouth sition in the re fraction that Fuller defini- t/4., Where ined WEL, all no specific es the long-
	TWA (Respirable	4 mg/m3	GB EH40

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

dust) `

8.2 Exposure controls

Personal protective equipment

Eye protection	:	Safety glasses with side-shields conforming to EN166 Eye wash bottle with pure water
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.
		Recommended: Butyl rubber/nitrile rubber gloves. Contaminated gloves should be removed.
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	:	In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe work- ing limits of the selected respirator. Ensure adequate ventilation. This can be achieved by local





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	exhaust extraction or by general ventilati ods for determining inhalation exposure) ticular to the mixing / stirring area. In cas to keep the concentrations under the occ limits then respiration protection measure	. This applies in par- e this is not sufficent cupational exposure
Environmental exposure con	trols	
General advice	: Do not flush into surface water or sanitar If the product contaminates rivers and la respective authorities.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

.1	Information on basic physical	an	a chemical properties
	Physical state Appearance Colour Odour	:	solid paste beige epoxy-like
	Melting point/range / Freezing point	:	No data available
	Boiling point/boiling range	:	No data available
	Flammability (solid, gas)	:	No data available
	Upper/lower flammability or e	axe	losive limits
	Upper explosion limit / Up- per flammability limit	-	
	Lower explosion limit / Lower flammability limit	:	No data available
	Flash point	:	> 101 °C Method: closed cup
	Auto-ignition temperature	:	No data available
			No data available
	Decomposition temperature	:	No data available
	рН	:	Not applicable substance/mixture is non-soluble (in water)
	Viscosity		
	Viscosity, dynamic	:	ca. 400.000 mPa.s (20 °C)
	Viscosity, kinematic	:	> 20,5 mm2/s (40 °C)



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Solubilitv(ies)		

Solubility(les)

Water solubility	:	insoluble
Partition coefficient: n- octanol/water	:	No data available
Vapour pressure	:	No data available
Density	:	ca. 1,9 g/cm3 (20 °C)
Relative vapour density	:	No data available
Particle characteristics	:	No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

: No data available Materials to avoid

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.



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Components:						
bis-[4-(2,3-epoxipropoxi)pl	enyl]propane:					
Acute oral toxicity	: LD50 Oral (Rat): > 5.000 mg/kg					
Acute dermal toxicity	: LD50 Dermal (Rabbit): > 5.000 mg/kg					
oxirane, mono[(C12-14-alk						
Acute oral toxicity	: LD50 Oral (Rat): > 5.000 mg/kg					
Skin corrosion/irritation Causes skin irritation.						
Serious eye damage/eye ir Causes serious eye irritatior						
Respiratory or skin sensiti	sation					
Skin sensitisation May cause an allergic skin re	action.					
Respiratory sensitisation Not classified based on avai	ition n available information. ity					
Germ cell mutagenicity Not classified based on avai						
Carcinogenicity Not classified based on avai	y ased on available information.					
Reproductive toxicity Not classified based on available information.						
STOT - single exposure Not classified based on avai	able information.					
STOT - repeated exposure Not classified based on avai	able information.					
Aspiration toxicity Not classified based on available information.						
2 Information on other haza	ds					
Endocrine disrupting prop	erties					
Product:						
Assessment	 The substance/mixture does not contain content of the endocrine disrupting properties REACH Article 57(f) or Commission Delegar (EU) 2017/2100 or Commission Regulation levels of 0.1% or higher. 	es according to ated regulation				



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SECTION 12: Ecological information

12.1 Toxicity

Components:

bis-[4-(2,3-epoxipropoxi)phenyl]propane:

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

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

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 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological infor-	:	An environmental hazard cannot be excluded in the event of
mation		unprofessional handling or disposal.
		Harmful to aquatic life with long lasting effects.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

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. 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.
European Waste Catalogue	:	08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances
Contaminated packaging	:	15 01 10* packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

14.1 UN number or ID number

ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.4 Packing group		
ADR	:	Not regulated as a dangerous good



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IMDG	: Not regulated as a dangerous good	
IATA (Cargo)	: Not regulated as a dangerous good	
IATA (Passenger)	: Not regulated as a dangerous good	
14.5 Environmental hazards Not regulated as a dangerou	s good	
14.6 Special precautions for us Not applicable	er	
14.7 Maritime transport in bulk	according to IMO instruments	

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) :		Conditions of restriction for the fol- owing entries should be considered:
UK REACH Candidate list of substances concern (SVHC) for Authorisation	of very high	: N	lot applicable
The Persistent Organic Pollutants Regula Regulation (EU) 2019/1021 as amended ain)		: N	lot applicable
International Chemical Weapons Conven Schedules of Toxic Chemicals and Precu	· · · ·	: N	lot applicable
Regulation (EC) No 1005/2009 on substa plete the ozone layer	ances that de-	: N	lot applicable
UK REACH List of substances subject to (Annex XIV)	authorisation	: N	lot applicable
GB Export and import of hazardous chen Informed Consent (PIC) Regulation	nicals - Prior	: N	lot applicable
Control of Major Accident Hazards Regul	ations No	ot ap	oplicable
(VOC)	Law on the incentive tax for volatile organic compounds (VOCV) no VOC duties		
emissi	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Not applicable		



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If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environ-	 Environmental Protection Act 1990 & Subsidiary Regulations
mental regulation/legislation	Health and Safety at Work Act 1974 & Subsidiary Regulations
specific for the substance or	Control of Substances Hazardous to Health Regulations
mixture:	(COSHH)
	May be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Full text of H-Statements		
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H411	:	Toxic to aquatic life with long lasting effects.
Full text of other abbreviation	ns	
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Irrit.	:	Eye irritation
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
ADR	:	European Agreement concerning the International Carriage of
		Dangerous Goods by Road
CAS	:	Chemical Abstracts Service
DNEL	:	Derived no-effect level
EC50	:	Half maximal effective concentration
GHS	:	Globally Harmonized System
ΙΑΤΑ	:	International Air Transport Association
IMDG	:	International Maritime Code for Dangerous Goods
LD50	:	Median lethal dosis (the amount of a material, given all at
		once, which causes the death of 50% (one half) of a group of test animals)
LC50	:	Median lethal concentration (concentrations of the chemical in
		air that kills 50% of the test animals during the observation
		period)
MARPOL	:	International Convention for the Prevention of Pollution from
		Ships, 1973 as modified by the Protocol of 1978
OEL	:	Occupational Exposure Limit
PBT	:	Persistent, bioaccumulative and toxic
PNEC	:	Predicted no effect concentration
REACH	:	Regulation (EC) No 1907/2006 of the European Parliament
	-	5 (·) · · · · · · · · · · · · · · · · ·



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SVHC : vPvB :	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 Very persistent and very bioaccumulative		
Further information			
Classification of the mixture:		Classification procedur	'e:
Skin Irrit. 2 H	1 315	Calculation method	
Eye Irrit. 2 H	1319	Calculation method	
Skin Sens. 1 H	1 317	Calculation method	
Aquatic Chronic 3 H	1412	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.

Changes as compared to previous version !

GB / EN