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

1.1 Product identifier

Trade name : Sikadur-Combiflex[®] CF adhesive normal/rapid Part 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- egory 2	H411: Toxic to aquatic life with long lasting effects.						

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Warning

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Hazard statements :	H317 Ma H319 Ca	uses skin irritation. y cause an allergic skin reaction. uses serious eye irritation. kic to aquatic life with long lasting o	effects.
Precautionary statements :	Prevention: P261 P264 P273 P280	Avoid breathing mist or vapours Wash skin thoroughly after hand Avoid release to the environmer Wear protective gloves/ eye pro- protection.	lling. ht.
	Response: P333 + P313 P391	If skin irritation or rash occurs: G advice/ attention. Collect spillage.	Set medical

Hazardous components which must be listed on the label:

bis-[4-(2,3-epoxipropoxi)phenyl]propane Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Additional Labelling

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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. EC-No. Registration number	Classification	Concentration (% w/w)
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 specific concentration limit Eye Irrit. 2; H319 >= 5 % Skin Irrit. 2; H315 >= 5 %	>= 25 - < 40
Reaction products of hexane-1,6- diol with 2-(chloromethyl)oxirane (1:2)	933999-84-9 618-939-5 01-2119463471-41- XXXX	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 2,5 - < 5
oxirane, mono[(C12-14- alkyloxy)methyl] derivs.	68609-97-2 271-846-8 01-2119485289-22- XXXX	Skin Irrit. 2; H315 Skin Sens. 1; H317	>= 2,5 - < 5
(1-methylethyl)-1,1'-biphenyl Contains: diisopropyl-1,1'-biphenyl >= 9,9 %	25640-78-2 247-156-8 01-2119982993-17- XXXX	Eye Irrit. 2; H319 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 1 - < 2,5
Substances with a workplace expos	sure limit :	•	
Titanium dioxide (> 10 μm)	13463-67-7 236-675-5 01-2119489379-17- XXXX		>= 1 - < 2,5

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Move out of dangerous area. Consult a physician.



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		Show this safety data sheet to the doctor in atter	idance.
If inhaled		Move to fresh air.	
ii iimaleu	•	Consult a physician after significant exposure.	
In case of skin contact	:	Take off contaminated clothing and shoes immed Wash off with soap and plenty of water. If symptoms persist, call a physician.	diately.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.	
If swallowed	:	Do not induce vomiting without medical advice. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious	person.
2 Most important symptoms ar	nd e	effects, both acute and delayed	
Symptoms	:	Allergic reactions	
		Excessive lachrymation	
		Erythema	
		Dermatitis See Section 11 for more detailed information on	haalth offaata
		and symptoms.	nealth enects
Risks	:	irritant effects	
		sensitising effects	
		Causes skin irritation.	
		May cause an allergic skin reaction.	
		Causes serious eye irritation.	
3 Indication of any immediate	me	dical attention and special treatment needed	
Treatment	:	Treat symptomatically.	
ECTION 5: Firefighting meas	sur	es	
1 Extinguishing media			
Suitable extinguishing media	:	In case of fire, use water/water spray/water jet/ca	
		ide/sand/foam/alcohol resistant foam/chemical poetinction.	owder for
2 Special hazards arising from	the	e substance or mixture	
		Do not allow run-off from fire fighting to enter dra	ins or water
Specific hazards during fire- fighting	:	courses.	

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Hazardous combustion prod- ucts	:	No hazardous combustion products are known	
5.3 Advice for firefighters Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing	apparatus.
Further information	:	Collect contaminated fire extinguishing water sep must not be discharged into drains. Fire residues and contaminated fire extinguishing be disposed of in accordance with local regulatio	g water must

SECTION 6: Accidental release measures

6.1 Personal precautions, protective 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 sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
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6.3 Methods and material for containment 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.

6.4 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 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.	



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		Follow standard hygiene measures when handlin products	g chemical
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.	
Hygiene measures	:	Handle in accordance with good industrial hygien practice. When using do not eat or drink. When u smoke. Wash hands before breaks and at the end	sing do not
7.2 Conditions for safe storage, i	ncl	uding any incompatibilities	
Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ve place. Store in accordance with local regulations.	
Further information on stor- age stability	:	No decomposition if stored and applied as directed	؛d.
7.3 Specific end use(s)			
Specific use(s)	:	Consult most current local Product Data Sheet pr use.	ior to any

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 *
Titanium dioxide (> 10 μm)	13463-67-7	TWA (inhalable dust)	10 mg/m3	GB EH40
		TWA (Respirable dust)	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.

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection	:	Safety glasses with side-shields conforming to EN166 Eye wash bottle with pure water
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manu-



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	facturer specifications.	
	Suitable for short time use or protection against 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.	splashes:
Skin and body protection :	Protective clothing (e.g. Safety shoes acc. to EN long-sleeved working clothing, long trousers). R and protective boots are additionaly recommend and stirring work.	ubber aprons
Respiratory protection :	In case of inadequate ventilation wear respirato Respirator selection must be based on known o exposure levels, the hazards of the product and ing limits of the selected respirator. organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 Ensure adequate ventilation. This can be achieve exhaust extraction or by general ventilation. (EN ods for determining inhalation exposure). This a ticular to the mixing / stirring area. In case this is to keep the concentrations under the occupation limits then respiration protection measures must	ppm ved by local N 689 - Meth- applies in par- s not sufficent nal exposure
Environmental exposure contr	rols	
General advice	 Do not flush into surface water or sanitary sewe If the product contaminates rivers and lakes or or respective authorities. 	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Appearance Colour	:	liquid paste grey
Odour	:	epoxy-like
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	No data available



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Flammability (solid, gas)	No data available	
Upper/lower flammability or o	-	
Upper explosion limit / Up- per flammability limit	No data available	
Lower explosion limit / Lower flammability limit	No data available	
Flash point	> 101 °C Method: closed cup	
Auto-ignition temperature	Not applicable	
Decomposition temperature	No data available	
рН	ca. 6 Concentration: 500 g/l 50 %	
Viscosity Viscosity, kinematic	> 20,5 mm2/s (40 °C)	
Solubility(ies) Water solubility	insoluble	
Partition coefficient: n- octanol/water	No data available	
Vapour pressure	0,01 hPa	
Density	ca. 1,73 g/cm3 (20 °C)	
Relative vapour density	No data available	
Particle characteristics	No data available	
0.2 Other information		

9.2 Other information

No data available



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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 : Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

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.

Components:

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

Acute oral toxicity	:	LD50 Oral (Rat): > 5.000 mg/kg

Acute dermal toxicity :		LD50 Dermal ((Rabbit): >	5.000 mg/kg
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oxirane, mono[(C12-14-alkyloxy)methyl] derivs.:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

(1-methylethyl)-1,1'-biphenyl:

Acute oral toxicity	:	LD50 Oral (Rat): 4.650 mg/kg
		Method: OECD Test Guideline 401

Skin corrosion/irritation

Causes skin irritation.



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Serious eye damage/eye irritation Causes serious eye irritation.						
Respiratory or skin sensitisation						
Skin sensitisation May cause an allergic skin reaction.						
Respiratory sensitisation Not classified based on available inf	ormation.					
Germ cell mutagenicity Not classified based on available inf	ormation.					
Carcinogenicity Not classified based on available inf	Carcinogenicity Not classified based on available information.					
Reproductive toxicity Not classified based on available inf	Reproductive toxicity Not classified based on available information.					
STOT - single exposure Not classified based on available information.						
STOT - repeated exposure Not classified based on available inf	STOT - repeated exposure Not classified based on available information.					
Aspiration toxicity Not classified based on available inf	Aspiration toxicity Not classified based on available information.					
11.2 Information on other hazards						
Endocrine disrupting properties	Endocrine disrupting properties					
e R (E	he substance/mixture does not conta red to have endocrine disrupting prop EACH Article 57(f) or Commission D EU) 2017/2100 or Commission Regul evels of 0.1% or higher.	perties according to elegated regulation				

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	:	EC50 (Daphnia magna (Water flea)): 1,8 mg/l



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aquatic invertebrates	Exposure time: 48 h	
(1-methylethyl)-1,1'-biphenyl: Toxicity to daphnia and other : aquatic invertebrates	LC50 (Daphnia magna (Water flea)): 0,167 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 asse	ssment	
Product: Assessment :	This substance/mixture contains no components to be either persistent, bioaccumulative and toxic very persistent and very bioaccumulative (vPvB) 0.1% or higher	c (PBT), or
12.6 Endocrine disrupting propertie	es	
Product:		
Assessment :	The substance/mixture does not contain compor ered to have endocrine disrupting properties acc REACH Article 57(f) or Commission Delegated r (EU) 2017/2100 or Commission Regulation (EU) levels of 0.1% or higher.	ording to egulation
12.7 Other adverse effects		
Product:		
Additional ecological infor- : mation	An environmental hazard cannot be excluded in unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.	the event of
SECTION 13: Disposal consider	ations	
13.1 Waste treatment methods		
Product :	The generation of waste should be avoided or m wherever possible. Empty containers or liners may retain some prod This material and its container must be disposed way. Dispose of surplus and non-recyclable products	uct residues. of in a safe



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		waste disposal contractor. Disposal of this product, solutions and any by- at all times comply with the requirements of er protection and waste disposal legislation and local authority requirements. Avoid dispersal of spilled material and runoff a soil, waterways, drains and sewers.	nvironmental any regional	
European Waste Catalogue	:	08 01 11* waste paint and varnish containing vents or other dangerous substances	organic sol-	
Contaminated packaging	:	15 01 10* packaging containing residues of or by dangerous substances	contaminated	

SECTION 14: Transport information

ADR	:	UN 3077		
IMDG	:	UN 3077		
ΙΑΤΑ	:	UN 3077		
14.2 UN proper shipping name				
ADR	:	ENVIRONMENTALL` N.O.S. (epoxy resin)	Y HAZARDOUS SUBSTANCE, SOLID,	
IMDG	:	ENVIRONMENTALL' N.O.S. (epoxy resin)	Y HAZARDOUS SUBSTANCE, SOLID,	
ΙΑΤΑ	:	Environmentally hazardous substance, solid, n.o.s., Environ- mentally hazardous substance, solid, n.o.s. (epoxy resin)		
14.3 Transport hazard class(es)				
		Class	Subsidiary risks	
ADR	:	9		
IMDG	:	9		
ΙΑΤΑ	:	9		
14.4 Packing group				
ADR Packing group Classification Code Hazard Identification Number	:	III M7 90		

14.1 UN number or ID number



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Labels Tunnel restriction code Remarks	:	9 (-) Transport in accordance with special provision 3	75	
IMDG Packing group Labels EmS Code Remarks	:	III 9 F-A, S-F Transport in accordance with 2.10.2.7 of the IMI	DG-Code	
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels Remarks	:	956 Y956 III Miscellaneous Transport in accordance with special regulation	A 197	
IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels		956 Y956 III Miscellaneous		
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 user		wided barein are for informational purpases only	and aplaly based	

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 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.



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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 (A	REACH List of restrictions (Annex 17)				
UK REACH Candidate list of sub- concern (SVHC) for Authorisation	IK REACH Candidate list of substances of very high oncern (SVHC) for Authorisation				
The Persistent Organic Pollutants Regulation (EU) 2019/1021 as an ain)	:	Not applicable			
International Chemical Weapons Schedules of Toxic Chemicals an		:	Not applicable		
Regulation (EC) No 1005/2009 or plete the ozone layer	:	Not applicable			
UK REACH List of substances su (Annex XIV)	ibject to authorisation	:	Not applicable		
GB Export and import of hazardo Informed Consent (PIC) Regulation		:	Not applicable		
Control of Major Accident Hazard 2015 (COMAH)	ls Regulations E2	ΕN	VIRONMENTAL HAZARDS		
Volatile organic compounds :	Law on the incentive tax for volatile organic compounds (VOCV)				
	· · · ·	oun	ds (VOC) content: 0% w/w		
	emissions (integrated	poll	4 November 2010 on industrial ution prevention and control) ds (VOC) content: 0% w/w		

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



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mixture:

(COSHH)

May be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments.

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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

H304	:	May be fatal if swallowed and enters airways.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H400	:	Very toxic to aquatic life.
H411	:	Toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.
Full text of other abbreviation	ns	
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration 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



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MARPOL	:	period)	est animals during the ol		
OEL PBT	:	Occupational Exposure Persistent, bioaccumula	tive and toxic		
PNEC REACH	:	and of the Council of 18 istration, Evaluation, Au	centration 7/2006 of the European December 2006 concerr thorisation and Restrictio ning a European Chemica	ning the Reg- on of Chemi-	
SVHC vPvB	:	Substances of Very High Very persistent and very	h Concern		
Further information					
Classification of the mixture	e:		Classification procedu	ure:	
Skin Irrit. 2	H3	15	Calculation method		
Eye Irrit. 2	H3	19	Calculation method		
Skin Sens. 1	H3	17	Calculation method		
Aquatic Chronic 2	H4	11	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