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

1.1 Product identifier

Trade name : SikaBiresin® CR131 (Biresin CR131) Part A

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

Product use : Composites system

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	:	EHS@uk.sika.com
responsible for the SDS		

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

lassification (REGULATION (EC) No 1272/2008)		
Skin irritation, Category 2	H315: Causes skin irritation.	
Serious eye damage, Category 1	H318: Causes serious eye damage.	
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



Danger

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Hazard statements	H315 H317 H318 H411	Causes skin irritation. May cause an allergic Causes serious eye d Toxic to aquatic life wi	
Precautionary statements	Prevention: P261 P264 P273 P280	Avoid breathing mist o Wash skin thoroughly Avoid release to the e	after handling.
	Response: P305 + P35 ⁻ P391	1 + P338 + P310 IF IN E with water for several tact lenses, if present tinue rinsing. Immedia CENTER/ doctor. Collect spillage.	minutes. Remove con- and easy to do. Con-

Hazardous components which must be listed on the label:

bis-[4-(2,3-epoxipropoxi)phenyl]propane bis-[4-(2,3-epoxypropoxy)phenyl]methane 1,4-bis(2,3 epoxypropoxy)butane

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 %	>= 60 - < 80
bis-[4-(2,3- epoxypropoxy)phenyl]methane	Not Assigned 701-263-0 01-2119454392-40- XXXX	Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Chronic 2; H411	>= 10 - < 20
1,4-bis(2,3 epoxypropoxy)butane	2425-79-8 219-371-7 01-2119494060-45- XXXX	Aquatic Chronic 3; H412 Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Dam. 1; H318 Acute toxicity esti- mate Acute oral toxicity: 1.163 mg/kg	>= 5 - < 10

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. Show this safety data sheet to the doctor in attendance.



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If inhaled	: Move to fresh air. Consult a physician after significant	exposure.
In case of skin contact	: Take off contaminated clothing and a Wash off with soap and plenty of wa If symptoms persist, call a physician	ter.
In case of eye contact	 Small amounts splashed into eyes c sue damage and blindness. In the case of contact with eyes, rins of water and seek medical advice. Continue rinsing eyes during transport Remove contact lenses. Keep eye wide open while rinsing. 	se immediately with plenty
If swallowed	: Do not induce vomiting without medi Rinse mouth with water. Do not give milk or alcoholic beverag Never give anything by mouth to an	ges.
2 Most important symptoms ar	nd effects, both acute and delayed	
Symptoms	 Allergic reactions Excessive lachrymation Erythema Dermatitis See Section 11 for more detailed information 	ormation on health effects
Risks	: irritant effects sensitising effects	
	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.	
3 Indication of any immediate	nedical attention and special treatmer	nt needed
Treatment	: Treat symptomatically.	
ECTION 5: Firefighting meas	sures	
1 Extinguishing media		
Suitable extinguishing media	: In case of fire, use water/water spray ide/sand/foam/alcohol resistant foan extinction.	
2 Special hazards arising from		
Specific hazards during fire-	: Do not allow run-off from fire fighting	to enter drains or water



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fighting		courses.	
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 regulation	g water must

SECTION 6: Accidental release measures

6.1 Personal precautions, protectiv	e 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.
6.3 Methods and material for conta	inment 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-



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	plication area. Follow standard hygiene measures when hand products	ling chemical
Advice on protection against : fire and explosion	Normal measures for preventive fire protection.	
Hygiene measures :	Handle in accordance with good industrial hygic practice. When using do not eat or drink. When smoke. Wash hands before breaks and at the e	using do not
7.2 Conditions for safe storage, inc	luding any incompatibilities	
Requirements for storage : areas and containers	Keep container tightly closed in a dry and well- place. Containers which are opened must be ca sealed and kept upright to prevent leakage. Sto ance with local regulations.	arefully re-
Further information on stor- : age stability	No decomposition if stored and applied as direc	cted.
7.3 Specific end use(s)		
Specific use(s) :	Consult most current local Product Data Sheet use.	prior to any

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

	Components	CAS-No.	Value type (Form of exposure)	Control parame- ters *	Basis *
Contains no substances with occupational exposure limit values					

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

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

Personal protective equip	ment
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 manufacturer specifications.
	Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves (> 0,1 mm)



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	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 long-sleeved working clothing, long trousers and protective boots are additionaly recomm and stirring work.). Rubber aprons
Respiratory protection	No special measures required.	
Environmental exposure cont	ols	
General advice	Do not flush into surface water or sanitary see If the product contaminates rivers and lakes respective authorities.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Appearance Colour	:	liquid viscous liquid various
Odour	:	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 o	exp	losive limits
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	:	No data available



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Decomposition temperature	No data available		
pH	ca. 6,6 Concentration: 50 9 substance/mixture	% is non-soluble (in water)	
Viscosity			
Viscosity, dynamic	ca. 2.000 mPa.s (2	25 °C)	
Viscosity, kinematic	> 20,5 mm2/s (40 °	°C)	
Solubility(ies) Water solubility	insoluble		
Partition coefficient: n- octanol/water	No data available		
Vapour pressure	0,1 hPa		
Density	ca. 1,15 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 : Stable under recommended storage conditions.



10.4 Conditions to avoid E 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 SECTION 11: Toxicological information Acute toxicity No deasified based on available information. Components: bis-[4-(2,3-epoxipropoxi)phenyl]propane: Acute oral toxicity Acute toxicity estimate: 1.163 mg/kg Causes skin irritation. Causes serious eye damage/eye irr	Date of last issue: 14.12.2023 Revision Date: 02.01.2024	Version 7.1	Print Date 29.02.2024
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Not classified based on available information.		ilable information.	
Carcinogenicity		ilable information.	
	Carcinogenicity		

Not classified based on available information.



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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 information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

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.

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
bis-[4-(2,3-epoxypropoxy)ph	en	-
Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): 2,54 mg/l Exposure time: 96 h

Toxicity to daphnia and other	:	LC50 (Daphnia magna (Water flea)): 2,55 mg/l
aquatic invertebrates		Exposure time: 48 h

Toxicity to algae/aquatic	:	EC50 (algae): 1,8 mg/l
plants		Exposure time: 72 h

12.2 Persistence and degradability

No data available



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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:

ered REA (EU)	substance/mixture does not contain components consid- to have endocrine disrupting properties according to CH Article 57(f) or Commission Delegated regulation 2017/2100 or Commission Regulation (EU) 2018/605 at s of 0.1% or higher.
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12.7 Other adverse effects

Product:

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

Global warming potential

Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) of the United Nations Framework Convention on Climate Change (UNFCCC)

Components:

octamethylcyclotetrasiloxane [D4]:

20-year global warming potential: 2,66 100-year global warming potential: 0,739 500-year global warming potential: 0,211 Atmospheric lifetime: 0,027 yr Radiative efficiency: 0,12 Wm2ppb Further information: Miscellaneous compounds

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible.



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		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 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

14.1 UN number or ID number				
ADR	:	UN 3082		
IMDG	:	UN 3082		
ΙΑΤΑ	:	UN 3082		
14.2 UN proper shipping name				
ADR	:	ENVIRONMENTALL N.O.S. (epoxy resin)	Y HAZARDOUS SUBSTANCE, LIQUID,	
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)		
ΙΑΤΑ	:	Environmentally hazardous substance, liquid, 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				



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Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code	: III : M6 : 90 : 9 : (-)	
IMDG Packing group Labels EmS Code	: III : 9 : F-A, S-F	
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	 964 Y964 III Miscellaneous 	
IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels	 964 Y964 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

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.

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) : Not applicable



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		N				
UK REACH Candidate list of subs concern (SVHC) for Authorisation	, ,	: Not applicable				
The Persistent Organic Pollutants Regulation (EU) 2019/1021 as an ain)	u	: Not applicable				
International Chemical Weapons Schedules of Toxic Chemicals an		: Not applicable				
Regulation (EC) No 1005/2009 or plete the ozone layer	n substances that de-	: Not applicable				
UK REACH List of substances su (Annex XIV)	bject to authorisation	: Not applicable				
GB Export and import of hazardous chemicals - Prior : Not applicable Informed Consent (PIC) Regulation						
Control of Major Accident Hazard 2015 (COMAH)	Control of Major Accident Hazards Regulations E2 ENVIRONMENTAL HAZARDS					
Volatile organic compounds :	Law on the incentive tax (VOCV) Volatile organic compound no VOC duties	-				
	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 0,1% 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- : mental regulation/legislation specific for the substance or mixture:	Environmental Protection Health and Safety at Wo Control of Substances H (COSHH) May be subject to the C Regulations (COMAH),	ork Act 1974 & Subsidi lazardous to Health Re ontrol of Major Accider	ary Regulations egulations			

15.2 Chemical safety assessment

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



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SECTION 16: Other information

Full text of H-Statements		
		Harmful if swallowed.
H302 H312	÷	Harmful in contact with skin.
H312 H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye unnage.
H332	:	Harmful if inhaled.
H411	:	Toxic to aquatic life with long lasting effects.
H412	÷	Harmful to aquatic life with long lasting effects.
Full text of other abbreviat	ione	
Acute Tox.	÷	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam. Eye Irrit.	:	Serious eye damage Eye irritation
Skin Irrit.	÷	Skin irritation
Skin Sens.	:	Skin sensitisation
ADR	:	European Agreement concerning the International Carriage of
ABR	•	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 PNEC	÷	Persistent, bioaccumulative and toxic Predicted no effect concentration
REACH		Regulation (EC) No 1907/2006 of the European Parliament
REACH	•	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
SVHC		Substances of Very High Concern
vPvB		Very persistent and very bioaccumulative
	•	

Further information

Classification of the mixture:

Classification procedure:



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Skin Irrit. 2	H315	Calculation method	
Eye Dam. 1	H318	Calculation method	
Skin Sens. 1	H317	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.

Changes as compared to previous version !

GB / EN