

Date of last issue: 26.10.2022	Version 3.2	Print Date 12.06.2023
Revision Date: 12.06.2023		

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

1.1 Product identifier

Trade name

SikaBiresin[®] CR132 (Biresin CR132) (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		C

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)

•
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
H341: Suspected of causing genetic defects.
H360F: May damage fertility.
H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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



Date of last issue: 26.10.2022 Revision Date: 12.06.2023	Version 3.2		Print Date 12.06.2023
	H341 H360F H411	Suspected of causing genetic d May damage fertility. Toxic to aquatic life with long la	
Precautionary statements :	Prevention:		
	P201 P273 P280	Obtain special instructions befo Avoid release to the environme Wear protective gloves/ protect eye protection/ face protection.	nt.
	Response:		
	P303 + P361 +	P353 IF ON SKIN (or hair): Tak ately all contaminated clothing. with water.	
	P304 + P340 +	P310 IF INHALED: Remove pe air and keep comfortable for bre mediately call a POISON CENT	eathing. Im-
	P305 + P351 +	P338 + P310 IF IN EYES: Rins with water for several minutes. tact lenses, if present and easy tinue rinsing. Immediately call a CENTER/ doctor.	e cautiously Remove con- to do. Con-
	P308 + P313	IF exposed or concerned: Get r vice/ attention.	nedical ad-
	P391	Collect spillage.	

Hazardous components which must be listed on the label:

bis-[4-(2,3-epoxipropoxi)phenyl]propane Trimethylolpropane triglycidylether bis-[4-(2,3-epoxypropoxy)phenyl]methane

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.



Date of last issue: 26.10.2022 Revision Date: 12.06.2023 Version 3.2

Print Date 12.06.2023

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
bis-[4-(2,3- epoxipropoxi)phenyl]propane	Registration number 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 	>= 60 - < 80
		limit Eye Irrit. 2; H319 >= 5 % Skin Irrit. 2; H315 >= 5 %	
Trimethylolpropane triglycidylether	Not Assigned 701-135-4 01-2120078341-60- XXXX	Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317 Muta. 2; H341 Repr. 1B; H360F Aquatic Chronic 2; H411	>= 20 - < 25
bis-[4-(2,3- epoxypropoxy)phenyl]methane	Not Assigned 701-263-0 01-2119454392-40- XXXX	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 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.	
lf 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 difficulties. 	ul-



Date of last issue: 26.10.2022 Revision Date: 12.06.2023	Version 3.2	Print Date 12.06.20
	ty.	
In case of eye contact	 Small amounts splashed into eyes can cause sue damage and blindness. In the case of contact with eyes, rinse immer of water and seek medical advice. Continue rinsing eyes during transport to ho Remove contact lenses. Keep eye wide open while rinsing. 	diately with plenty
If swallowed	 Do not induce vomiting without medical advi Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconst 	
.2 Most important symptoms and	effects, both acute and delayed	
Symptoms	 Allergic reactions Dermatitis See Section 11 for more detailed information and symptoms. 	n on health effects
Risks	 Health injuries may be delayed. corrosive effects sensitising effects toxic effects for reproduction 	
	May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects. May damage fertility. Causes severe burns.	
I.3 Indication of any immediate m	edical attention and special treatment need	ed
-	Treat symptomatically.	
SECTION 5: Firefighting meas	ires	
5.1 Extinguishing media		
Suitable extinguishing media	In case of fire, use water/water spray/water ide/sand/foam/alcohol resistant foam/chemic extinction.	
5.2 Special hazards arising from t	he substance or mixture	
Specific hazards during fire- fighting	Do not allow run-off from fire fighting to ente courses.	r drains or water
Hazardous combustion prod-	No hazardous combustion products are kno	wn
Country GB 000000126602		4 / 15



Date of last issue: 26.10.2022 Revision Date: 12.06.2023	Version 3.2	Print Date 12.06.2023
ucts		
5.3 Advice for firefighters		

be disposed of in accordance with local regulations.

Special protective equipment
for firefighters: In the event of fire, wear self-contained breathing apparatus.Further information: Collect contaminated fire extinguishing water separately. This
must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must

SECTION 6: Accidental release measures

•	ve equipment and emergency procedures 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 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.
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Date of last issue: 26.10.2022 Revision Date: 12.06.2023	Version 3.2	Print Date 12.06.2023			
	Follow standard hygiene measures when han products	dling chemical			
Advice on protection against : fire and explosion	Normal measures for preventive fire protection	٦.			
Hygiene measures :	Handle in accordance with good industrial hyg practice. When using do not eat or drink. Whe smoke. Wash hands before breaks and at the	n using do not			
7.2 Conditions for safe storage, including any incompatibilities					
Requirements for storage : areas and containers	Keep container tightly closed in a dry and well place. Containers which are opened must be sealed and kept upright to prevent leakage. So ance with local regulations.	carefully re-			
Further information on stor- : age stability	No decomposition if stored and applied as dire	ected.			
7.3 Specific end use(s)					
Specific use(s) :	Consult most current local Product Data Shee use.	t prior to any			

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value type (Form	Control parame-	Basis *
		of exposure)	ters *	

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 equipment

Eye/face 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 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) Contaminated gloves should be removed. Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min.



Date of last issue: 26.10.2022 Revision Date: 12.06.2023	Version 3.2	Print Date 12.06.2023
	 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. No special measures required. 	
1 91		
Environmental exposure cont	rols	
General advice	 Do not flush into surface water or sanitary s 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 Colour Odour	::	liquid colourless characteristic
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	exp	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
Decomposition temperature	:	No data available
рН	:	ca. 6,5 (20 °C) Concentration: 100 % Not applicable
Viscosity		
Viscosity, dynamic	:	ca. 1.800 mPa.s (25 °C)
Viscosity, kinematic	:	> 20,5 mm2/s (40 °C)



Date of last issue: 26.10.2022 Revision Date: 12.06.2023		Version 3.2	Print Date 12.06.2023
Solubility(ies) Water solubility	: No data av	railable	
Partition coefficient: n- octanol/water	: No data av	railable	
Vapour pressure	: 0,01 hPa		
Density	: ca. 1,14 g/o	cm3 (20 °C)	
Relative vapour density	: No data av	railable	
Particle characteristics	: No data av	ailable	
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

Conditions to avoid	:	No data available
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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.



Date of last issue: 26.10.2022 Revision Date: 12.06.2023		Version 3.2	Print Date 12.06.202
<u>Components:</u>			
bis-[4-(2,3-epoxipropoxi)	phenyl]p	propane:	
Acute oral toxicity		.D50 Oral (Rat): > 5.000 mg/kg	
Acute dermal toxicity	: L	.D50 Dermal (Rabbit): > 5.000 mg/kg	
Trimethylolpropane trigly	cidyleth	ier:	
Acute oral toxicity	: L	.D50 Oral (Rat): 3.398 mg/kg	
Acute dermal toxicity	: L	.D50 Dermal (Rabbit): > 2.000 mg/kg	
Skin corrosion/irritation Causes severe burns.			
Serious eye damage/eye Causes serious eye dama		1	
Respiratory or skin sens	tisation		
Skin sensitisation May cause an allergic skin	reaction		
Respiratory sensitisatior Not classified based on av		formation.	
Germ cell mutagenicity Suspected of causing gene	etic defec	ts.	
Carcinogenicity Not classified based on av	ailable in	formation.	
Reproductive toxicity May damage fertility.			
STOT - single exposure Not classified based on av	ailable in	formation.	
STOT - repeated exposure Not classified based on av		formation.	
Aspiration toxicity Not classified based on av	ailable in	formation.	
1.2 Information on other haz			
Endocrine disrupting pro	perties		
Product:			
Assessment	e F	The substance/mixture does not contain co ered to have endocrine disrupting propertie REACH Article 57(f) or Commission Delega	es according to ated regulation
Country CR 000000126602	(EU) 2017/2100 or Commission Regulation	(EU) 2018/605 at



ate of last issue: 26.10.2022 Revision Date: 12.06.2023	Version 3.2	Print Date 12.06.2023
	levels of 0.1% or higher.	
SECTION 12: Ecological inforr	ation	
12.1 Toxicity		
Components:		
bis-[4-(2,3-epoxipropoxi)phe	yl]propane:	
Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbov Exposure time: 96 h	w trout)): 2 mg/l
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): Exposure time: 48 h	1,8 mg/l
Trimethylolpropane triglycid	lether:	
Toxicity to algae/aquatic plants	ErC50 (Pseudokirchneriella subcapita Exposure time: 72 h	ata (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 flea)
12.2 Persistence and degradabilit 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 as	essment	
<u>Product:</u> Assessment	This substance/mixture contains no c to be either persistent, bioaccumulati very persistent and very bioaccumula 0.1% or higher	ve and toxic (PBT), or
12.6 Endocrine disrupting proper	ies	
Product:		
Assessment	The substance/mixture does not cont ered to have endocrine disrupting pro REACH Article 57(f) or Commission I	operties according to



Date of last issue: 26.10.2022 Revision Date: 12.06.2023	Version 3.2	Print Date 12.06.2023

12.7 Other adverse effects

Product:

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

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.

SECTION 14: Transport information

14.1 UN number or ID number

ADR	:	UN 1760	
IMDG	:	UN 1760	
ΙΑΤΑ	:	UN 1760	
14.2 UN proper shipping name			
ADR	:	CORROSIVE LIQUID (Trimethylolpropane tr	·
IMDG		CORROSIVE LIQUID (Trimethylolpropane tr	,
ΙΑΤΑ	:	Corrosive liquid, n.o.s (Trimethylolpropane tr	
14.3 Transport hazard class(es)			
		Class	Subsidiary risks



Date of last issue: 26.10.2022 Revision Date: 12.06.2023		Version 3.2	Print Date 12.06.2023
422			
ADR	:	8	
IMDG	:	8	
ΙΑΤΑ	:	8	
14.4 Packing group			
ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code		III C9 80 8 (E)	
IMDG Packing group Labels EmS Code	::	III 8 F-A, S-B	
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	: : : :	856 Y841 III Corrosive	
IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels	: : : :	852 Y841 III Corrosive	
14.5 Environmental hazards			
ADR Environmentally hazardous	:	yes	
IMDG Marine pollutant	:	yes	
IATA (Passenger) Environmentally hazardous	:	yes	
IATA (Cargo) Environmentally hazardous	:	yes	
upon the properties of the unpa	pro acł	vided herein are for informational purposes o aged material as it is described within this S y vary by mode of transportation, package size	afety 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.



Date of last issue: 26.10.2022	
Revision Date: 12.06.2023	

Version 3.2

Print Date 12.06.2023

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
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors			Not applicable
Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer			Not applicable
GB Export and import of hazardous chemicals - Prior : Not applicable Informed Consent (PIC) Regulation			
Control of Major Accident Hazards Regulations E2 ENVIRONMENTAL HAZARDS 2015 (COMAH) Volatile organic compounds : Law on the incentive tax for volatile organic compound (VOCV) Volatile organic compounds (VOC) content: 0,1% w/w no VOC duties Directive 2010/75/EU of 24 November 2010 on indust emissions (integrated pollution prevention and control Volatile organic compounds (VOC) content: 0,1% w/w			or volatile organic compounds ds (VOC) content: 0,1% w/w 4 November 2010 on industrial ution prevention and control)
If other regulatory information app	blies that is not already	prov	vided elsewhere in the Safety Da

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	:	Environmental Protection Act 1990 & Subsidiary Regulations Health and Safety at Work Act 1974 & Subsidiary Regulations
specific for the substance or mixture:		Control of Substances Hazardous to Health Regulations (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

H314 :	Causes severe skin burns and eye damage.
H315 :	Causes skin irritation.



Date of last issue: 26.10.2022 Revision Date: 12.06.2023	Version 3.2	Print Date 12.06.2023
H317 : H318 : H319 : H341 : H360F : H411 :	May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Suspected of causing genetic defects. May damage fertility. Toxic to aquatic life with long lasting effects.	
Full text of other abbreviations		
Aquatic Chronic:Eye Dam.:Eye Irrit.:Muta.:Repr.:Skin Corr.:Skin Irrit.:Skin Sens.:ADR:	Long-term (chronic) aquatic hazard Serious eye damage Eye irritation Germ cell mutagenicity Reproductive toxicity Skin corrosion Skin irritation Skin sensitisation European Agreement concerning the Interna Dangerous Goods by Road Chemical Abstracts Service	tional Carriage of
DNEL : EC50 : GHS : IATA : IMDG : LD50 :	Derived no-effect level Half maximal effective concentration Globally Harmonized System International Air Transport Association International Maritime Code for Dangerous G Median lethal dosis (the amount of a materia once, which causes the death of 50% (one h test animals)	ll, given all at alf) of a group of
LC50 : MARPOL :	Median lethal concentration (concentrations air that kills 50% of the test animals during the period) International Convention for the Prevention of	ne observation
OEL : PBT : PNEC : REACH :	Ships, 1973 as modified by the Protocol of 19 Occupational Exposure Limit Persistent, bioaccumulative and toxic Predicted no effect concentration Regulation (EC) No 1907/2006 of the Europe and of the Council of 18 December 2006 cor istration, Evaluation, Authorisation and Restr cals (REACH), establishing a European Che	978 ean Parliament ncerning the Reg- riction of Chemi-
SVHC : vPvB :	Substances of Very High Concern Very persistent and very bioaccumulative	micais Ayency

Further information

Classification of the mixture:	
H314	Calculation method
H318	Calculation method
H317	Calculation method
H341	Calculation method
	H314 H318 H317



Date of last issue: 26.10.2022 Revision Date: 12.06.2023		Version 3.2	Print Date 12.06.2023
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.

Changes as compared to previous version !

GB / EN