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

1.1 Product identifier

Trade name

SikaBiresin[®] GC050 (GC1 050) Part A

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

Product use : Tooling 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 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 :	H315 H317 H319 H411	Causes skin irritation. May cause an allergic skin reacti Causes serious eye irritation. Toxic to aquatic life with long las	
Precautionary statements :	Prevention: P261 P264 P273 P280	Avoid breathing mist or vapours. Wash skin thoroughly after hand Avoid release to the environmen Wear protective gloves/ eye prot protection.	ling. t.
	Response: P333 + P313 P391	If skin irritation or rash occurs: G advice/ attention. Collect spillage.	et medical

Hazardous components which must be listed on the label:

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

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 %	>= 40 - < 60
		Skin Irrit. 2; H315 >= 5 %	
2-(2-butoxyethoxy)ethanol	112-34-5 203-961-6 01-2119475104-44- XXXX	Eye Irrit. 2; H319	>= 2,5 - < 5
Substances with a workplace exposure limit :			
Titanium dioxide (> 10 µm)	13463-67-7 236-675-5 01-2119489379-17- XXXX		>= 10 - < 20

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. If symptoms persist, call a physician.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses.



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	Keep eye wide open while rinsing. If eye irritation persists, consult a s	
If swallowed	: Do not induce vomiting without me Rinse mouth with water. Do not give milk or alcoholic bever Never give anything by mouth to a	rages.
4.2 Most important symptoms an	d effects, both acute and delayed	
Symptoms	 Allergic reactions Excessive lachrymation Erythema Dermatitis See Section 11 for more detailed in and symptoms. 	information on health effects
Risks	: irritant effects sensitising effects	
	Causes skin irritation. May cause an allergic skin reaction	n.
	Causes serious eye irritation.	
4.3 Indication of any immediate r Treatment	Causes serious eye irritation. nedical attention and special treatment : Treat symptomatically.	ent needed
•	nedical attention and special treatmont in the symptomatically.	ent needed
Treatment	nedical attention and special treatmont in the symptomatically.	ent needed
Treatment SECTION 5: Firefighting meas	nedical attention and special treatmo : Treat symptomatically. ures	ray/water jet/carbon diox-
Treatment SECTION 5: Firefighting meas 5.1 Extinguishing media	 inedical attention and special treatment Treat symptomatically. ures In case of fire, use water/water spride/sand/foam/alcohol resistant foa extinction. 	ray/water jet/carbon diox-
Treatment SECTION 5: Firefighting meas 5.1 Extinguishing media Suitable extinguishing media	 inedical attention and special treatment Treat symptomatically. ures In case of fire, use water/water spride/sand/foam/alcohol resistant foa extinction. 	ray/water jet/carbon diox- am/chemical powder for
Treatment SECTION 5: Firefighting meas 5.1 Extinguishing media Suitable extinguishing media 5.2 Special hazards arising from Specific hazards during fire- fighting	 inedical attention and special treatment Treat symptomatically. ures In case of fire, use water/water spring ide/sand/foam/alcohol resistant foatextinction. ine substance or mixture Do not allow run-off from fire fighting 	ray/water jet/carbon diox- am/chemical powder for ng to enter drains or water
Treatment SECTION 5: Firefighting meas 5.1 Extinguishing media Suitable extinguishing media 5.2 Special hazards arising from Specific hazards during fire- fighting Hazardous combustion prod-	 in case of fire, use water/water spr ide/sand/foam/alcohol resistant foa extinction. in case or mixture in case or mixture 	ray/water jet/carbon diox- am/chemical powder for ng to enter drains or water
Treatment SECTION 5: Firefighting meas 5.1 Extinguishing media Suitable extinguishing media 5.2 Special hazards arising from Specific hazards during fire- fighting Hazardous combustion prod- ucts	 inedical attention and special treatmeters Treat symptomatically. ures In case of fire, use water/water spride/sand/foam/alcohol resistant foatextinction. ine substance or mixture Do not allow run-off from fire fighting courses. No hazardous combustion product 	ray/water jet/carbon diox- am/chemical powder for ng to enter drains or water ts are known



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	Fire residues and contaminated fire ext	inquishing water must

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protect	tive	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 con	taiı	nment 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. 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. Containers which are opened must be carefully re- sealed and kept upright to prevent leakage. Store in accord- ance with local regulations.
Further information on stor- age stability	:	No decomposition if stored and applied as directed.
7.3 Specific end use(s) Specific use(s)	:	Consult most current local Product Data Sheet prior to any

SECTION 8: Exposure controls/personal protection

use.

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
2-(2-butoxyethoxy)ethanol	112-34-5	STEL	15 ppm 101,2 mg/m3	2006/15/EC
	Further inform	nation: Indicative		
		TWA	10 ppm 67,5 mg/m3	2006/15/EC
		TWA	10 ppm 67,5 mg/m3	GB EH40
		STEL	15 ppm 101,2 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	5
Hand protection	 Chemical-resistant, impervious gloves complying with proved standard must be worn at all times when hanc chemical products. Reference number EN 374. Follow 	lling



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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 Ell long-sleeved working clothing, long trousers). R and protective boots are additionaly recommend and stirring work.	lubber aprons				
Respiratory protection :	In case of inadequate ventilation wear respirator Respirator selection must be based on known of 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 cont	Environmental exposure controls					
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	:	liquid
Appearance	:	viscous
Colour		various
Colour	•	Tanodo
Odour	:	characteristic, very faint
Melting point/range / Freezing		No data available
point	•	
F		
Boiling point/boiling range		> 200 °C
	•	



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Flammability (solid, gas)	: N	o data available	
Upper/lower flammability or	-		
Upper explosion limit / Upper flammability limit	: N	o data available	
Lower explosion limit / Lower flammability limit	: N	o data available	
Flash point		110 °C ethod: closed cup	
Auto-ignition temperature	: N	o data available	
Decomposition temperature	: N	o data available	
рН	: N	ot applicable	
Viscosity			
Viscosity, kinematic	: >	20,5 mm2/s (40 °C)	
Solubility(ies)			
Water solubility	: in	soluble	
Partition coefficient: n- octanol/water	: N	o data available	
Vapour pressure	: 0,	01 hPa	
Density	: 1,	57 g/cm3 (20 °C)	
Relative vapour density	: N	o data available	
Particle characteristics	: N	o data available	
9.2 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 due to lack of data.

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
2-(2-butoxyethoxy)ethanol: Acute oral toxicity	:	LD50 Oral (Rat): > 5.000 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rabbit): ca. 2.700 mg/kg
Skin corrosion/irritation		
Causes skin irritation.		

Serious eye damage/eye irritation

Causes serious eye irritation.



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Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Aspiration toxicity

Not classified due to lack of data.

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



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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 information : An environmental hazard cannot be excluded in the event of 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.



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European Waste Catalogue	: 20 01 27* paint, inks, adhesives and res gerous substances	sins containing dan-
Contaminated packaging	: 15 01 10* packaging containing residues by dangerous substances	s of or 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	:	ENVIRONMEN N.O.S. (epoxy resin)	FALLY HAZARDOUS SUBSTANCE, LIQUID,
IMDG	:	ENVIRONMEN N.O.S. (epoxy resin)	FALLY HAZARDOUS SUBSTANCE, LIQUID,
ΙΑΤΑ	:	Environmentally (epoxy resin)	hazardous substance, liquid, n.o.s.
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 Labels Tunnel restriction code Remarks		III M6 90 9 (-) Transport in acc	cordance with special provision 375
IMDG Packing group Labels EmS Code	: :	III 9 F-A, S-F	12



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Remarks	:	Transport in accordance with 2.10.2.7 of the IME)G-Code
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels Remarks		964 Y964 III Miscellaneous Transport in accordance with special regulation .	A 197
IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels 14.5 Environmental hazards	:	964 Y964 III Miscellaneous	
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
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable



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The Persistent Organic Pollutants Regulation (EU) 2019/1021 as am ain)		Not applicable	
International Chemical Weapons (Schedules of Toxic Chemicals and		Not applicable	
Regulation (EC) No 1005/2009 on plete the ozone layer	substances that de- :	Not applicable	
UK REACH List of substances sul (Annex XIV)	bject to authorisation :	Not applicable	
GB Export and import of hazardou Informed Consent (PIC) Regulation		Not applicable	
Control of Major Accident Hazards 2015 (COMAH) Volatile organic compounds :	s Regulations E2 EN Law on the incentive tax (VOCV) Volatile organic compour Directive 2010/75/EU of 2 emissions (integrated pol Volatile organic compour	nds (VOC) content: 3,19 24 November 2010 on i Ilution prevention and co	pounds 6 w/w ndustrial ontrol)

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.

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.



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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	S
Aquatic Chronic	Long-term (chronic) aquatic hazard
	Eye irritation
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation
2006/15/EC	Europe. Indicative occupational exposure limit values
	UK. EH40 WEL - Workplace Exposure Limits
2006/15/EC / TWA	Limit Value - eight hours
2006/15/EC / STEL	Short term exposure limit
GB EH40 / TWA	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	Short-term exposure limit (15-minute 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
IATA :	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
	and of the Council of 18 December 2006 concerning the Reg-
	istration, Evaluation, Authorisation and Restriction of Chemi-
0)////0	cals (REACH), establishing a European Chemicals Agency
SVHC	Substances of Very High Concern
vPvB	Very persistent and very bioaccumulative



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Further information

Classification of the mixture:		Classification procedure:
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	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