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

#### 1.1 Product identifier

Trade name

SikaBiresin<sup>®</sup> G442 (EPO 4042) 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	Causes skin irritation.		
	H317	May cause an allergic skin react	ion.	
	H319	Causes serious eye irritation.		
	H411	Toxic to aquatic life with long las	sting effects.	
Precautionary statements :	Prevention:			
	P261	Avoid breathing dust/ fume/ gas/ pours/ spray.	/ mist/ va-	
	P264	Wash skin thoroughly after hand	lling.	
	P273	Avoid release to the environmer	nt.	
	P280	Wear protective gloves/ eye protection.	tection/ face	
	Response:			
	P333 + P313	If skin irritation or rash occurs: G advice/ attention.	Set medical	
	P391	Collect spillage.		

### 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)

#### 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
bis(isopropyl)naphthalene	38640-62-9 254-052-6 01-2119565150-48- XXXX	Asp. Tox. 1; H304 Aquatic Chronic 1; H410	>= 5 - < 10
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	>= 1 - < 2,5

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	specialist.
If swallowed	: Do not induce vomiting without me	edical advice.
	Rinse mouth with water.	
	Do not give milk or alcoholic beven Never give anything by mouth to a	
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 i	nformation on health offects
	and symptoms.	mormation on nealth enects
Risks	: irritant effects	
	sensitising effects	
	Causes skin irritation.	
	May cause an allergic skin reactio Causes serious eye irritation.	n.
4.3 Indication of any immediate	medical attention and special treatm	ent needed
Treatment	: Treat symptomatically.	
SECTION 5: Firefighting meas		
Suitable extinguishing media	: In case of fire, use water/water spi ide/sand/foam/alcohol resistant for extinction.	
5.2 Special hazards arising from	the substance or mixture	
Specific hazards during fire- fighting	: Do not allow run-off from fire fighti courses.	ng to enter drains or water
Hazardous combustion prod- ucts	: No hazardous combustion product	ts are known
5.3 Advice for firefighters		
Special protective equipment for firefighters	: In the event of fire, wear self-conta	ained breathing apparatus.

must not be discharged into drains.



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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	ive	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 cont	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	:	Do not breathe vapours or spray mist. 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



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	smoke. Wash hands before breaks and at the end of workday.				
7.2 Conditions for safe storage, including any incompatibilities					
Requirements for storage areas and containers	: Keep container tightly closed in a dry ar place. Containers which are opened mu sealed and kept upright to prevent leaka	ust be carefully re-			

ance with local regulations.

Further information on stor- : No decomposition if stored and applied as directed. age stability

## 7.3 Specific end use(s)

## **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

Personal protective equipme	nt	
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 ap- proved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manu- facturer 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.
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 additionally recommended for mixing and stirring work.
Respiratory protection	:	No special measures required.
Environmental exposure con	tro	ls
General advice	:	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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## **SECTION 9: Physical and chemical properties**

an : :	<b>d chemical properties</b> liquid grey
:	characteristic, very faint
:	No data available
:	> 200 °C
:	No data available
exe	losive limits
-	No data available
:	No data available
:	> 110 °C Method: closed cup
:	No data available
:	No data available
:	Not applicable
:	No data available
:	No data available
:	No data available
	: : : : : : :



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Vapour pressure	: 0,01 hPa	
Density	: 1,73 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

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:



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Acute oral toxicity	: LD50 Oral (Rat): > 5.000 mg/kg			
Acute dermal toxicity	: LD50 Dermal (Rabbit): > 5.000 mg/kg			
bis(isopropyl)naphthalene				
Acute oral toxicity	: LD50 Oral (Rat): > 3.900 mg/kg			
Acute inhalation toxicity	: LC50 (Rat): > 5,64 mg/l Exposure time: 4 h Test atmosphere: dust/mist			
Acute dermal toxicity	: LD50 Dermal (Rat): > 4.500 mg/kg			
Skin corrosion/irritation Causes skin irritation.				
Serious eye damage/eye in Causes serious eye irritation				
Respiratory or skin sensit	sation			
Skin sensitisation May cause an allergic skin reaction. Respiratory sensitisation Not classified based on available information.				
<b>Carcinogenicity</b> Not classified based on avai	able information.			
<b>Reproductive toxicity</b> Not classified based on avai	able 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 avai	able information.			
11.2 Information on other haza	ds			
Endocrine disrupting prop	erties			
Product:				
Assessment	: The substance/mixture does not contain c ered to have endocrine disrupting propertie REACH Article 57(f) or Commission Deleg	es according to		



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	(EU) 2017/2100 or Commission Regulation (E levels of 0.1% or higher.	:U) 2018/605 at
SECTION 12: Ecological inform	ation	
12.1 Toxicity		
Components:		
bis-[4-(2,3-epoxipropoxi)phen	yl]propane:	
Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)): Exposure time: 96 h	2 mg/l
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 1,8 mg/l Exposure time: 48 h	
<b>12.2 Persistence and degradability</b> No data available	,	
<b>12.3 Bioaccumulative potential</b> No data available		
<b>12.4 Mobility in soil</b> No data available		
12.5 Results of PBT and vPvB ass	essment	
Product:		
Assessment :	This substance/mixture contains no compone to be either persistent, bioaccumulative and to very persistent and very bioaccumulative (vPv 0.1% or higher	oxic (PBT), or
12.6 Endocrine disrupting properti	es	
Product:		
Assessment :	The substance/mixture does not contain comp ered to have endocrine disrupting properties a REACH Article 57(f) or Commission Delegate (EU) 2017/2100 or Commission Regulation (E levels of 0.1% or higher.	according to d regulation
12.7 Other adverse effects		
Product:		
Additional ecological infor- : mation	An environmental hazard cannot be excluded unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.	in the event of
Additional ecological infor-		in the event of 10 / 15



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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	:	20 01 27* paint, inks, adhesives and resins containing dan- gerous 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	:	UN 3082	
	IMDG	:	UN 3082	
	ΙΑΤΑ	:	UN 3082	
14.2	2 UN proper shipping name			
	ADR	:	ENVIRONMENTALLY N.O.S. (epoxy resin, bis(isop	Y HAZARDOUS SUBSTANCE, LIQUID, ropyl)naphthalene)
	IMDG	:	ENVIRONMENTALLY N.O.S. (epoxy resin, bis(isop	Y HAZARDOUS SUBSTANCE, LIQUID, ropyl)naphthalene)
	ΙΑΤΑ	:	: Environmentally hazardous substance, liquid, n.o.s. (epoxy resin, bis(isopropyl)naphthalene)	
14.3	B Transport hazard class(es)			
			Class	Subsidiary risks



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ADR	: 9	
IMDG	: 9	
ΙΑΤΑ	: 9	
14.4 Packing group		
<b>ADR</b> Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code	: III : M6 : 90 : 9 : (-)	
<b>IMDG</b> 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		
<b>ADR</b> Environmentally hazardous	: yes	
IMDG Marine pollutant	: yes	
IATA (Passenger) Environmentally hazardous	: yes	
IATA (Cargo) Environmentally hazardous	: yes	
14.6 Special precautions for user		
	provided herein are for informational purpost ickaged material as it is described within the	

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 (Ar	nnex 17)	:	Not applicable
UK REACH Candidate list of subs concern (SVHC) for Authorisation		:	Not applicable
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	n substances that de-	:	Not applicable
UK REACH List of substances su (Annex XIV)	bject to authorisation	:	Not applicable
GB Export and import of hazardor Informed Consent (PIC) Regulation		:	Not applicable
Control of Major Accident Hazard 2015 (COMAH)	s Regulations E2	EN	/IRONMENTAL HAZARDS
Volatile organic compounds :	(VOCV)		or volatile organic compounds ls (VOC) content: 0,6% w/w
	emissions (integrated	pollu	4 November 2010 on industrial ution prevention and control) Is (VOC) content: 0,6% 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
Country GB 000000680629	13 /



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

## Other regulations:

### 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 H315 H317 H319 H410 H411 H412		May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.			
Full text of other abbreviations					
Aquatic Chronic Asp. Tox. Eye Irrit. Skin Irrit. Skin Sens. ADR CAS DNEL EC50		Long-term (chronic) aquatic hazard Aspiration hazard Eye irritation Skin irritation Skin sensitisation European Agreement concerning the International Carriage of Dangerous Goods by Road Chemical Abstracts Service Derived no-effect level Half maximal effective concentration			
GHS IATA	:	Globally Harmonized System 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 PBT PNEC REACH	: : : :	Occupational Exposure Limit Persistent, bioaccumulative and toxic Predicted no effect concentration Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Reg-			



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SVHC vPvB	cals (REACH : Substances of	<ul> <li>istration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency</li> <li>Substances of Very High Concern</li> <li>Very persistent and very bioaccumulative</li> </ul>				
Further information						
Classification of the mixture:		Classification p	rocedure:			
Skin Irrit. 2	H315	Calculation meth	od			
Eye Irrit. 2	H319	Calculation meth	od			
Skin Sens. 1	H317	Calculation meth	od			
Aquatic Chronic 2	H411	Calculation meth	od			

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