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

### 1.1 Product identifier

Trade name	<sup>:</sup> Biresin <sup>®</sup> U5 Hardener (B)
Substance name	: Diphenylmethanediisocyanate, isomeres and homologues
Substance No.	: 618-498-9

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

At present there is no complete information available on identified uses. When the data becomes available, it will be integrated into the safety data sheet.

Product use	: Special system.
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### 1.3 Details of the supplier of the safety data sheet

Company	: Sika Deutschland GmbH Kornwestheimer Str. 103-107 70439 Stuttgart
Telephone	: +4971180090
E-mail address	: EHS@de.sika.com

### 1.4 Emergency telephone number

Emergency telephone num-	:	0173-6774799 Out of office hours only
ber		EHS@de.sika.com

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Type of product : Substance

### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through pro- longed or repeated exposure.

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Classification (67/548/EEC, 1999/45/EC)		
Harmful	R20: Harmful by inhalation.	
	R48/20: Harmful: danger of serious d health by prolonged exposure throug	
Carcinogenic Category 3	R40: Limited evidence of a carcinoge	enic effect.
Sensitising	R42/43: May cause sensitisation by i skin contact.	nhalation and
Irritant	R36/37/38: Irritating to eyes, respirate and skin.	ory system

### 2.2 Label elements

# Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :		!>
Signal word :	Danger	•
Hazard statements :	H315 H317 H319 H332 H334 H335 H351 H373	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through pro- longed or repeated exposure.
Precautionary statements :	Prevention: P201 P260 P280 Response:	Obtain special instructions before use. Do not breathe dust/ fume/ gas/ mist/ va- pours/ spray. Wear protective gloves/ eye protection/ face protection.
	P308 + P313	IF exposed or concerned: Get medical ad- vice/ attention.
	P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
	P337 + P313	If eye irritation persists: Get medical advice/ attention.

### Additional Labelling:

Contains isocyanates. May produce an allergic reaction.

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### 2.3 Other hazards

This substance is not considered to be very persistent nor very bioaccumulating (vPvB). This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

### **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Chemical Name	CAS-No. EINECS-No. / ELINCS No.	Concentration [%]
Diphenylmethanediisocya-	9016-87-9	>= 50 - <= 100
nate, isomeres and homo-	618-498-9	
logues		

### **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	<ul> <li>Immediately flush eye(s) with plenty of water.</li> <li>Remove contact lenses.</li> <li>Keep eye wide open while rinsing.</li> <li>If eye irritation persists, consult a specialist.</li> </ul>
If swallowed	<ul> <li>Do not induce vomiting without medical advice.</li> <li>Rinse mouth with water.</li> <li>Do not give milk or alcoholic beverages.</li> <li>Never give anything by mouth to an unconscious person.</li> </ul>
4.2 Most important symptoms	and effects, both acute and delayed
Symptoms	<ul> <li>Asthmatic appearance Cough Respiratory disorder Allergic reactions Excessive lachrymation Erythema Headache Dermatitis See Section 11 for more detailed information on health effects and symptoms.</li> </ul>
Risks	: irritant effects sensitising effects
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4.3 Indication of any immediate m	edical attention and special treatment r	needed
Treatment	: Treat symptomatically.	
SECTION 5: Firefighting measu	ures	
5.1 Extinguishing media		
Suitable extinguishing media	: Use extinguishing measures that are a cumstances and the surrounding enviro	
5.2 Special hazards arising from t	he substance or mixture	
Hazardous combustion prod- ucts	: No hazardous combustion products are	e known
5.3 Advice for firefighters		

# 5.3 Advice for firefighters Special protective equipment : In the event of fire, wear self-contained breathing apparatus. for firefighters Further information : Standard procedure for chemical fires.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protection	ive equipment and emergency procedures	
Personal precautions	: Use personal protective equipment. Deny access to unprotected persons.	
<b>6.2 Environmental precautions</b> Environmental precautions	: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform	

### 6.3 Methods and materials 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.

respective authorities.

### 6.4 Reference to other sections

For personal protection see section 8.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

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Advice on safe handling	:	Avoid formation of aerosol. Avoid exceed cupational exposure limits (see section 8) on skin, or on clothing. For personal prote Persons with a history of skin sensitisatio ma, allergies, chronic or recurrent respira not be employed in any process in which used. Smoking, eating and drinking shoul application area. Provide sufficient air exc haust in work rooms. Follow standard hyg when handling chemical products	). Do not get in eyes, ection see section 8. n problems or asth- tory disease should this mixture is being Id be prohibited in the change and/or ex-
Advice on protection against fire and explosion	:	Normal measures for preventive fire prote	ection.
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.	
7.2 Conditions for safe storage,	inc	uding any incompatibilities	
Requirements for storage areas and containers	:	Keep container tightly closed in a dry and place. Containers which are opened mus sealed and kept upright to prevent leakag ance with local regulations.	t be carefully re-
Other data	:	No decomposition if stored and applied a	s directed.
7.3 Specific end use(s)			
Specific use(s)	:	No data available	

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

Components with workplace control parameters

Components	CAS-No.	Value	Control parame- ters *	Basis *
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	AGW	0,05 mg/m3	DE TRGS 900

\*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

### Personal protective equipment

Eye protection

### : Safety glasses with side-shields Eye wash bottle with pure water

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Hand protection	: Chemical-resistant, impervious gloves of proved standard must be worn at all time chemical products. Reference number a facturer specifications.	es when handling
	Suitable for short time use or protection Butyl rubber/nitrile rubber gloves (0,4 m Contaminated gloves should be remove Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min.	ım),
Skin and body protection	<ul> <li>Protective clothing (e.g. Safety shoes a long-sleeved working clothing, long trou and protective boots are additionaly rec and stirring work.</li> </ul>	isers). Rubber aprons
Respiratory protection	<ul> <li>Respirator selection must be based on exposure levels, the hazards of the proving limits of the selected respirator. Use a properly fitted NIOSH approved a respirator complying with an approved a sessment indicates this is necessary. organic vapor filter (Type A) A1: &lt; 1000 ppm; A2: &lt; 5000 ppm; A3: &lt; Ensure adequate ventilation. This can be exhaust extraction or by general ventila ods for determining inhalation exposure ticular to the mixing / stirring area. In can to keep the concentrations under the oc- limits then respiration protection measure</li> </ul>	duct and the safe work- air-purifying or air-fed standard if a risk as- < 10000 ppm be achieved by local tion. (EN 689 - Meth- e). This applies in par- ise this is not sufficent ccupational exposure
	Ensure adequate ventilation, especially	in confined areas.
Environmental exposure of	controls	
General advice	<ul> <li>Do not flush into surface water or sanita If the product contaminates rivers and la respective authorities.</li> </ul>	

# 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour

: brown

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Odour	:	characteristic	
Odour Threshold	:	No data available	
Flash point	:	> 101 °C	
Ignition temperature	:	not applicable	
Lower explosion limit (Vol%)	:	No data available	
Upper explosion limit (Vol%)	:	No data available	
Flammability (solid, gas)	:	No data available	
Oxidizing properties	:	No data available	
Auto-ignition temperature	:	No data available	
рН	:	Note: not applicable	
Melting point/range / Freez- ing point	:	No data available	
Boiling point/boiling range	:	No data available	
Vapour pressure	:	No data available	
Density	:	ca.1,22 g/cm3 at 20 °C	
Water solubility	:	Note: insoluble	
Partition coefficient: n- octanol/water	:	No data available	
Viscosity, dynamic	:	ca.100 mPa.s at  20 °C	
Viscosity, kinematic	:	> 20,5 mm2/s at  40 °C	
Relative vapour density	:	No data available	
Evaporation rate	:	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

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# SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

# Biresin<sup>®</sup> U5 Hardener (B)

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The product is chemically stal	ble.			
10.3 Possibility of hazardous rea	actions			
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				

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### Acute toxicity

### Components:

Diphenylmethanediisocyanate, isomeres and homologues :					
Acute oral toxicity	: LD50 Oral rat: > 10.000 mg/kg				
Acute inhalation toxicity	: Acute toxicity estimate : 1,5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement				
Acute dermal toxicity	: LD50 Dermal rabbit: > 9.400 mg/kg				

### Skin corrosion/irritation

### Product

Causes skin irritation.

### Serious eye damage/eye irritation

### Product

Causes serious eye irritation.

### Respiratory or skin sensitisation

### **Product**

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Germ cell mutagenicity

### Product

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Mutagenicity	: No data available	
Carcinogenicity		
Product		
Carcinogenicity	: Suspected of causing cancer.	
Reproductive Toxicity/Fertility		
Reproductive toxicity	: No data available	
No data available		
Reproductive Toxicity/Developm	nt/Teratogenicity	
Teratogenicity	: No data available	
No data available		
STOT - single exposure		
No data available		
STOT - repeated exposure		
No data available		
Aspiration toxicity		
No data available		

### **SECTION 12: Ecological information**

### 12.1 Toxicity

No data available

### 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 Other adverse effects

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No data available

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product

 In accordance with the EWC Waste Regulation the classification of waste is to be assigned to the jurisdiction of the origin of waste. Therefore, it is not possible to assign a particular waste identification number.
 Completely emptied packagings may be given for recycling.
 Empty packaging may still contain hazardous residues. Empty packaging should be removed by a licensed waste contractor.
 Sika has agreed disposal contracts for all packaging which is brought into circulation in Germany.
 For further details see www.sika.de

### **SECTION 14: Transport information**

ADR Not dangerous goods IATA Not dangerous goods IMDG Not dangerous goods

**14.6 Special precautions for user** No data available

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** not applicable

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Labelling according to EC Directives (1999/45/EC)

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Hazard pictograms



: R20 R36/37/38 Harmful by inhalation. Irritating to eyes, respiratory system and skin.

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	R40 R42/43 R48/20	Limited evidence of a carcir May cause sensitisation by skin contact. Harmful: danger of serious health by prolonged exposu halation.	inhalation and damage to
S-phrase(s)	: S23 S36/37	Do not breathe vapour. Wear suitable protective clo gloves.	thing and
	S45	In case of accident or if you seek medical advice immed the label where possible).	
Hazardous components which • 618-498-9 Diphe		e label: nate, isomeres and homologue	?S
<b>Prohibition/Restriction</b> REACH - Restrictions on the m the market and use of certain of preparations and articles (Anne	langerous substanc		
REACH - Candidate List of Sub Concern for Authorisation (Artic		h : None of the comport (=> 0.1 %).	nents are listed
REACH - List of substances su (Annex XIV)	bject to authorisatio	n : not applicable	
REACH Information:	<ul> <li>preregistered of preregistered of excluded from</li> </ul>	contained in our Products are or registered by our upstream s or registered by us, and/or the regulation, and/or the registration.	uppliers, and/or
Water contaminating class (Germany)	: WGK 1 slightly v Gemäß VwVws	vater endangering vom 30.Juli 2005	
VOC-CH (VOCV)	: no VOC duties		
VOC-EU (solvent)	: not applicable		

### **15.2 Chemical Safety Assessment**

This product contains substances for which Chemical Safety Assessments are still required.

### **SECTION 16: Other information**

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 any use and processing.

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Changes as compared to previous version !