

SAFETY DATA SHEET  
according to Regulation (EC) No. 1907/2006  
**Biresin® U1404 Resin (A)**



Revision Date 19.11.2014

Version 5.0

Print Date 19.11.2014

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

**1.1 Product identifier**

Trade name : Biresin® U1404 Resin (A)

Substance name : Aromatic Polyisocyanate-Prepolymere

Substance No. : 609-378-7

**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 : Tooling system.

**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 number : 0173-6774799 Out of office hours only  
EHS@de.sika.com

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Type of product : Substance

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

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.

**Classification (67/548/EEC, 1999/45/EC)**

Harmful	R20: Harmful by inhalation.
Sensitising	R42/43: May cause sensitisation by inhalation and skin contact.
Irritant	R36: Irritating to eyes.

SAFETY DATA SHEET  
according to Regulation (EC) No. 1907/2006  
**Biresin® U1404 Resin (A)**




Revision Date 19.11.2014

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## 2.2 Label elements

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

Hazard pictograms	:		
Signal word	:	Danger	
Hazard statements	:	H317 H319 H334	May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements	:	<b>Prevention:</b> P261 P280 P285 <b>Response:</b> P304 + P341 P333 + P313 P342 + P311	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ eye protection/ face protection. In case of inadequate ventilation wear respiratory protection. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If skin irritation or rash occurs: Get medical advice/ attention. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

### Additional Labelling:

Contains isocyanates. May produce an allergic reaction.

## 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 [%]
Aromatic Polyisocyanate-Prepolymere	37273-56-6	>= 50 - <= 100
4-methyl-m-phenylene diisocyanate	584-84-9 209-544-5 01-2119486974-18-XXXX	>= 0,25 - < 1



## 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.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Do not induce vomiting without medical advice.  
Rinse mouth with water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Asthmatic appearance  
Allergic reactions  
Excessive lachrymation  
See Section 11 for more detailed information on health effects and symptoms.
- Risks : irritant effects  
sensitising effects

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2 Special hazards arising from the substance or mixture

- Hazardous combustion products : 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 : Standard procedure for chemical fires.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective 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.

### 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.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours or spray mist. Avoid exceeding of 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.

### 7.2 Conditions for safe storage, including any incompatibilities

**SAFETY DATA SHEET**  
 according to Regulation (EC) No. 1907/2006  
**Biresin® U1404 Resin (A)**



Revision Date 19.11.2014

Version 5.0

Print Date 19.11.2014

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 accordance with local regulations.

Other data : No decomposition if stored and applied as 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 parameters *	Basis *
4-methyl-m-phenylene diisocyanate	584-84-9	AGW	0,005 ppm 0,035 mg/m <sup>3</sup>	DE TRGS 900
		AGW	0,005 ppm 0,035 mg/m <sup>3</sup>	TRGS 430

\*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

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 (0,4 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 : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.  
organic vapor filter (Type A)  
A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm  
Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficient to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.

#### Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid  
Colour : transparent  
Odour : very faint  
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  
pH : Note: not applicable  
Melting point/range / Freez- : No data available

SAFETY DATA SHEET  
according to Regulation (EC) No. 1907/2006  
**Biresin® U1404 Resin (A)**



Revision Date 19.11.2014

Version 5.0

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Boiling point	:	No data available
Boiling point/boiling range	:	No data available
Vapour pressure	:	No data available
Density	:	ca. 1,05 g/cm <sup>3</sup> at 20 °C
Water solubility	:	Note: insoluble
Partition coefficient: n- octanol/water	:	No data available
Viscosity, dynamic	:	ca. 6.500 mPa.s at 25 °C
Viscosity, kinematic	:	> 20,5 mm <sup>2</sup> /s at 40 °C
Relative vapour density	:	No data available
Evaporation rate	:	No data available

**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**

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**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

SAFETY DATA SHEET  
according to Regulation (EC) No. 1907/2006  
**Biresin® U1404 Resin (A)**



Revision Date 19.11.2014

Version 5.0

Print Date 19.11.2014

**Components:**

**4-methyl-m-phenylene diisocyanate :**

Acute oral toxicity	: LD50 Oral rat: > 5.000 mg/kg
Acute inhalation toxicity	: LC50 rat: 0,235 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	: LD50 Dermal rat: > 9.400 mg/kg

**Skin corrosion/irritation**

**Product**

No data available

**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**

Mutagenicity : No data available

**Carcinogenicity**

**Product**

Carcinogenicity : No data available

**Reproductive Toxicity/Fertility**

Reproductive toxicity : No data available

No data available

**Reproductive Toxicity/Development/Teratogenicity**

Teratogenicity : No data available

No data available

**STOT - single exposure**



SAFETY DATA SHEET  
according to Regulation (EC) No. 1907/2006  
**Biresin® U1404 Resin (A)**



Revision Date 19.11.2014

Version 5.0

Print Date 19.11.2014

No data available

**STOT - repeated exposure**

No data available

**Aspiration toxicity**

No data available

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**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**

No data available

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**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](http://www.sika.de)

SAFETY DATA SHEET  
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**Biresin® U1404 Resin (A)**



Revision Date 19.11.2014

Version 5.0

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## 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

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## 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)

Hazard pictograms :



Harmful

R-phrases(s)	:	R20 R36 R42/43	Harmful by inhalation. Irritating to eyes. May cause sensitisation by inhalation and skin contact.
S-phrases(s)	:	S23 S24 S37 S45	Do not breathe vapour. Avoid contact with skin. Wear suitable gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazardous components which must be listed on the label:

- Aromatic Polyisocyanate-Prepolymere
- 209-544-5 4-methyl-m-phenylene diisocyanate

Special labelling of certain mixtures : Contains isocyanates. See information supplied by the manufacturer.

### Prohibition/Restriction

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, : not applicable

**SAFETY DATA SHEET**  
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**Biresin® U1404 Resin (A)**



Revision Date 19.11.2014

Version 5.0

Print Date 19.11.2014

preparations and articles (Annex XVII)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : None of the components are listed (=> 0.1 %).

REACH - List of substances subject to authorisation (Annex XIV) : not applicable

REACH Information: All substances contained in our Products are  
- preregistered or registered by our upstream suppliers, and/or  
- preregistered or registered by us, and/or  
- excluded from the regulation, and/or  
- exempted from the registration.

Water contaminating class (Germany) : WGK 1 slightly water endangering  
Gemäß VwVws 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.

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## 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 use and processing.

|| Changes as compared to previous version !