

# Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Germany



## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Identification of the substance/preparation

Product name or Trade name :

Biresin® U1305 Resin (A)

Use of the substance/preparation : Chemical product for construction and industry

### Company/undertaking identification

Manufacturer/Distributor : Sika Deutschland GmbH

Street/postbox : Kornwestheimer Str. 103-107

Town/City and Post Code : 70439 Stuttgart

Country : Germany

Telephone no. : +4971180090

Fax no. : +497118009321

e-mail address of person responsible for this SDS : EHS@de.sika.com

Emergency telephone number : +49-(0)173-6774799 (Only out of office hour)

## 2. HAZARDS IDENTIFICATION

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Carc. Cat. 3; R40  
Xn; R20, R48/20  
Xi; R36/37/38  
R42/43

**Human health hazards** : Limited evidence of a carcinogenic effect. Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact.

**Additional warning phrases** : Contains isocyanates. See information supplied by the manufacturer.

See section 11 for more detailed information on health effects and symptoms.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical family/ Characteristics** : Modified aromatic isocyanate

Ingredient name	CAS number	%	EC number	Classification
<del>4</del> ,4'-methylenediphenyl diisocyanate	101-68-8	25-35	202-966-0	Carc. Cat. 3; R40 [1] [2] Xn; R20, R48/20 Xi; R36/37/38 R42/43
See section 16 for the full text of the R-phrases declared above				

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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[1] Substance classified with a health or environmental hazard

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

Occupational exposure limits, if available, are listed in section 8.

### 4. FIRST AID MEASURES

#### First-aid measures

- Inhalation** : If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Get medical attention. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting unless directed to do so by medical personnel. Maintain an open airway. Seek immediate medical attention.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

See section 11 for more detailed information on health effects and symptoms.

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13).
- Small spill** : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container.

## 7. HANDLING AND STORAGE

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- Packaging materials**
- Recommended** : Use original container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure limit values

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
4,4'-methylenediphenyl diisocyanate	<b>TRGS900 AGW (Germany, 2/2010). Skin sensitiser.</b> CEIL: 0.1 mg/m <sup>3</sup> Form: sum of vapour and aerosols PEAK: 0.05 mg/m <sup>3</sup> 15 minute(s). Form: sum of vapour and aerosols TWA: 0.05 mg/m <sup>3</sup> 8 hour(s). Form: sum of vapour and aerosols

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

### Exposure controls

- Occupational exposure controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
- 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, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.  
organic vapour filter (Type A)  
A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Reference number EN 374. Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves. (0,4 mm), breakthrough time <30 min. Contaminated gloves should be removed. Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
- Skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Use barrier skin cream.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General information

#### Appearance

- Form** : Liquid.
- Colour** : Amber.
- Odour** : Characteristic.

#### Important health, safety and environmental information

- Flash point** : Closed cup: >101 °C (>213.8 °F)
- Density** : ~1.14 g/cm<sup>3</sup> [20 °C (68 °F)]
- Solubility** : Insoluble in the following materials: water
- Viscosity** : Dynamic: 7000 mPa·s (7000 cP)

## 10. STABILITY AND REACTIVITY

- Stability** : The product is stable.
- Conditions to avoid** : No specific data.
- Materials to avoid** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. TOXICOLOGICAL INFORMATION

### Potential acute health effects

- Inhalation** : Harmful by inhalation. Irritating to respiratory system. May cause sensitisation by inhalation. May cause irritation.
- Ingestion** : Irritating to mouth, throat and stomach.
- Skin contact** : Irritating to skin. May cause sensitisation by skin contact.
- Eye contact** : Irritating to eyes.

Product name	List name	Name on list	Classification	Notes
4,4'-methylenediphenyl diisocyanate	Germany TRGS905	4,4'-Methylenediphenyldiisocyanat	K3	

- Chronic effects** : Harmful: danger of serious damage to health by prolonged exposure through inhalation. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : May cause cancer, based on animal data. Limited evidence of a carcinogenic effect. Risk of cancer depends on duration and level of exposure.

## 12. ECOLOGICAL INFORMATION

**Environmental effects** : Avoid contact of spilled material and runoff with soil and surface waterways. Do not empty into drains; dispose of this material and its container in a safe way.

## 13. DISPOSAL CONSIDERATIONS

**Methods of disposal** : Completely emptied packagings can be given for recycling. Packaging containing remains of dangerous substances, as well as packagings disposed of remains can be unharmed eliminated in accordance with the regulations.

**Packaging** 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.

15 01 10\* packaging containing residues of or contaminated by dangerous substances

For further details see [www.sika.de](http://www.sika.de)

## 14. TRANSPORT INFORMATION

### International transport regulations

#### **ADR**

Not regulated.

#### **IMDG**

Not regulated.

**Marine pollutant** : No

#### **IATA**

Not regulated.

## 15. REGULATORY INFORMATION

### EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

**Hazard symbol or symbols** : Xn

Harmful

**Contains** : 4,4'-methylenediphenyl diisocyanate

**Risk phrases** : R40- Limited evidence of a carcinogenic effect.  
R20- Harmful by inhalation.  
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R36/37/38- Irritating to eyes, respiratory system and skin.  
R42/43- May cause sensitisation by inhalation and skin contact.

**Safety phrases** : S23- Do not breathe gas/fumes/vapour/spray  
S36/37- Wear suitable protective clothing and gloves.  
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Additional warning phrases** : Contains isocyanates. See information supplied by the manufacturer.

**VOC content (EU)** : VOC (w/w): 0%

### National regulations

**Hazard class for water** : 1 according Appendix No. (Gemäß VwVws vom 17. Mai 1999)  
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## 15. REGULATORY INFORMATION

## 16. OTHER INFORMATION

**Full text of classifications referred to in sections 2 and 3** : R40- Limited evidence of a carcinogenic effect.  
R20- Harmful by inhalation.  
R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R36/37/38- Irritating to eyes, respiratory system and skin.  
R42/43- May cause sensitisation by inhalation and skin contact.

**Full text of classifications referred to in sections 2 and 3** : Carc. Cat. 3 - Carcinogen category 3  
Xn - Harmful  
Xi - Irritant

### History

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☑ Indicates information that has changed from previously issued version.

### Notice to reader

*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.*