

# Safety Data Sheet

according to 91/155/EEC and ISO 11014-1

(see instructions in Annex to 93/112/EC)

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Revised: 12.05.2000

SDS No.: 020-00042702.0000

## 1. Identification of the substance/preparation and company

Product

Product name

**Sikaflex<sup>®</sup> TS plus**

Manufacturer/supplier information

Manufacturer/supplier:

Sika Chemie GmbH

Street/postbox:

Kornwestheimer Str. 103-107

Town/City and Post Code:

Stuttgart

Country:

Germany

Phone:

+4971180090

Telefax:

+497118009321

Emergency information phone:

Nur ausserhalb der Geschäftszeit 0172-7169508

## 2. Composition/information on ingredients

Chemical characterization

Filled reactive PUR-polymer

Hazardous ingredients

Designation according to 67/548/EEC

CAS No. Concentration Danger symbols R phrases

· 4,4-methylenediphenyl diisocyanate

101-68-8

0.1 - 1 % Xn

20,36/37/38,42/43

· Naphtha (petroleum), hydrodesulfurized heavy

64742-82-1

1 - 2.5 % Xn,N

10,65,51/53,66,67

## 3. Hazards identification

Hazards identification

Xn

Harmful

Information on hazards to man and to the environment

42

May cause sensitization by inhalation.

## 4. First-aid measures

General instructions

In any case show the physician the Safety Data Sheet

After inhalation

Ensure supply of fresh air.

In the event of symptoms take medical treatment.

After skin contact

In case of contact with skin wash off immediately with soap and water

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**4. First-aid measures (continued)**

Remove soiled or soaked clothing immediately, do not allow to dry.  
Consult a doctor if skin irritation persists.

**After eye contact**

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water.  
Summon a doctor immediately.

**After ingestion**

Do not induce vomiting.  
Summon a doctor immediately.

**5. Fire-fighting measures**

Suitable extinguishing media

foam  
dry powder  
carbon dioxide  
water spray jet

Unsuitable extinguishing media for safety reasons

Not applicable.

Exposure hazard arising from the product, its combustion products or resulting gases

In the event of fire the following can be released:

Isocyanates  
Carbon monoxide (CO)  
Carbondioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen chloride (HCl)  
Possible in traces:  
Hydrogen cyanide (HCN)

Special protective equipment for fire-fighting

Use breathing apparatus.

Additional information

Cool containers with water spray jet.  
Fire residues and contaminated firefighting medium must be disposed of in accordance with the local regulations.

**6. Accidental release measures**

Personal precautions

Ensure adequate ventilation.  
Use breathing apparatus if exposed to vapours/dust/aerosol.  
Use personal protective clothing.

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## 6. Accidental release measures (continued)

### Environmental precautions

Do not allow to enter drains or waterways  
Do not allow to enter into the subsoil/soil.

### Procedures for cleaning up

Pick up mechanically  
When picked up, treat material as prescribed under heading "Disposal".  
Remove residues with small amount of alcohol-based solvent.

## 7. Handling and storage

### Handling

Instructions for safe handling  
See chapter 8 / Personal protective equipment.  
Provide good ventilation of working area (local exhaust ventilation if necessary).

Instructions for fire and explosion protection  
Keep away from sources of ignition - no smoking.

### Storage

Requirements for storage rooms and containers  
Keep container tightly closed and dry in a cool, well-ventilated place

Combined storage instructions  
Keep away from food, beverages and animal feedstocks.

Additional information regarding storage  
Protect from heat and direct sunlight  
Protect from atmospheric moisture and water

## 8. Exposure controls/personal protection

Substances having workplace related exposure values/limits which may require monitoring for assessment purposes

Designation of substance

CAS No.	Type	Ref./Country/Year
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· 4,4-methylenediphenyl diisocyanate		
101-68-8	MEL	0.02 mg/m3 HSE/EH40/UK

### Personal protective equipment

General protective and hygiene measures  
Take care for sufficient ventilation or exhaust on the workshop place.  
Do not eat, drink or smoke during work time.  
Wash hands before breaks and after work.  
Use barrier skin cream.  
Remove soiled or soaked clothing immediately.

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#### 8. Exposure controls/personal protection (continued)

Respiratory protection  
In case of insufficient ventilation.  
Ori-nasal mask suitable for organic vapours.  
Class of vapour filter is depending on  
pollutant concentration on the scene.

Hand protection  
Rubber gloves

Eye protection  
Safety glasses

Body protection  
Working clothes

#### 9. Physical and chemical properties

##### Appearance

Physical state: Pasty  
Colour: Various, depending on coloration  
Odour: characteristic

##### Data relevant to safety

	Method
Flash point	> 65 °C
Density at 20°C	approx. 1.25 g/cm <sup>3</sup>
Solubility in water	Reacts with water
Viscosity at 20°C	approx. 90 Pas

#### 10. Stability and reactivity

##### Materials to avoid/dangerous reactions

No hazardous reactions when stored and handled according to  
prescribed instructions.

##### Thermal decomposition and hazardous decomposition products

No decomposition if used as prescribed.

#### 11. Toxicological information

##### Sensitization

When inhalation:

Sensitization/allergic reaction possible.

Allergic reactions can be observed by sensitive persons.

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#### 11. Toxicological information (continued)

The same is also valid below the fixed exposure limits.

Asthmatics and persons with sensitive respiratory tract should avoid all contacts with this product.

##### Experience on humans

When skin contact:

May cause irritation.

When eyes contact:

Irritation.

When inhalation:

May cause irritation.

When swallowed:

May cause health disorders.

#### 12. Ecological information

##### Additional information

Product is slightly water polluting.

Do not allow to enter waste water drain, waterways or soil.

Once cured, the product will unlikely have any adverse effect on the environment.

#### 13. Disposal considerations

##### Product

##### Recommendations

Must be disposed of in a special waste disposal unit in accordance with the corresponding regulations.

See chapter 15, national regulations.

Hydrogen halides must be removed by flue gas scrubbing

##### Packaging

##### Recommendations

Completely emptied packagings can be given for recycling.

Packaging that cannot be cleaned should be disposed of as product waste

#### 14. Transport information

##### ADR/RID

##### Further information

No dangerous goods.

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#### 14. Transport information (continued)

##### IMO/IMDG

Further information  
No dangerous goods.

##### IATA/ICAO

Further information  
No dangerous goods.

#### 15. Regulatory information

##### Labelling according to 88/379/EEC

The product is classified and labelled in accordance with  
EC directives/the relevant national laws.

Relevant hazardous ingredients for labelling

Contains: 4,4-methylenediphenyl diisocyanate

##### Danger symbols

Xn Harmful

##### R phrases

42 May cause sensitization by inhalation.

Special labelling for certain preparations (Annex III to 88/379/EEC)

Contains isocyanates. Observe manufacturer's instructions.

##### National regulations

###### UK Legislation

Health and Safety at Work etc Act, 1974, and relevant Statutory  
Provisions.

SI 1993/1746: Chemicals (Hazard Information and Packaging)  
Regulations, 1993.

SI 1988/1657: The Control of Substances Hazardous to Health  
Regulations.

SI No 2839 1991 Environmental Protection (Duty of Care) Regulations.

###### UK Guidance Publications

Approved Code of Practice - Management of Health and Safety  
at Work, HSE.

General Approved Code of Practice to COSHH Regulations, HSE.  
EH40, Occupational Exposure Limits, HSE. Revised Annually.

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**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 Technical Data Sheet prior to any use and processing.