

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Date of print: 10. January 2017 RASCOflex GT511 B-Comp  
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## 1. Identification of the substance/ preparation and of the company/ undertaking

**Identification of the substance or preparation:** RASCOflex GT511 B-Comp  
PU Injection Foam Resin

**Use of the substance/ preparation:**  
isocyanate component for polyurethane resin

**Supplier (manufacturer/importer/downstream user/distributor):**  
**Rascor International Ltd.**, Gewerbestrasse 4, CH-8162 Steinmaur, Switzerland  
Phone: +41 (0)44 857 11 11, Fax: +41 (0)44 857 11 00  
**Rascor Tunnel- und Spezialtiefbau GmbH**, Ratsgasse 6, DE-97688 Bad Kissingen, Germany  
Phone: +49 (0)971 130 2738, Fax: +49 (0)971 133 6251

**Dept. responsible for information:**  
Labor E-mail: [safety@rascor.com](mailto:safety@rascor.com)  
Emergency telephone: +41 (0)44 857 11 11

## 2. Hazards identification

**Hazard designation:**



Xn Harmful

**Information pertaining to special dangers for human and environment**

20 Harmful by inhalation.  
36/37/38 Irritating to eyes, respiratory system and skin.  
40 Limited evidence of a carcinogenic effect.  
42/43 May cause sensitization by inhalation and skin contact.  
48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

## 3. Composition/ Information on ingredients

**chemical characterization (preparation)**

**Description:** isocyanate component for polyurethane  
foam resin

**Hazardous ingredients:**

EC No:	Identification of the hazard:	Labelling (67/548/EEC or 1999/45/EC)	% by weight
CAS No.:	R phrases: REACH No:	Remark:	
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues 20-36/37/38-40-42/43-48/20	Xn	50 - 100

**Additional information**

Full text of R-phrases: see section 16.

## 4. First-aid measures

**General information:**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in unconscious position and seek medical advice.

**After inhalation::**

Move victim to fresh air. Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration.

**In case of skin contact:**

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

**In case of eye contact:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice.

**After ingestion:**

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If swallowed, rinse mouth with water (only if the person is conscious). Consult physician immediately. Keep victim calm. Do not induce vomiting.

### 5. Fire-fighting measures

#### Suitable extinguishing media:

alcohol resistant foam, Carbon dioxide, Powder, spray mist, (water)

#### Extinguishing media which must not be used for safety reasons:

Strong water jet

#### Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

#### Special protective equipment for firefighters:

Provide a conveniently located respiratory protective device.

#### Additional information:

Co-ordinate fire-fighting measures to the fire surroundings. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

### 6. Accidental release measures

#### Personal precautions

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours. See protective measures under point 7 and 8.

#### Measures to protect the environment

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

#### methods for cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

### 7. Handling and storage

#### Handling

##### Advices on safe handling

Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. When using do not eat, drink or smoke. Personal protective equipment: refer to chapter 8. Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

##### Precautions against fire and explosion:

Vapours are heavier than air and will spread at floor level.

#### Storage

##### Requirements for storerooms and containers:

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

##### hints on joint storage

Keep away from food, drink and animal feedingstuffs.

##### Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

### 8. Exposure controls / Personal protection

#### Technical measures to prevent exposure

Provide good ventilation. This can be achieved with local or room suction.

#### Components with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:

EC No:	Description:	type:	Limit value	unit
CAS No.:			STEL (EC) TWA (EC)	

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-9016-87-9 diphenylmethanediisocyanate, isomeres and homologues 0,05 mg/m<sup>3</sup>

### Additional information

Stated values are taken from the then applicable German TRGS 900 or the German VCI table for exposure limit values.

TWA (EC): Occupational exposure limit value

STEL (EC): Short term occupational exposure limit value

### Occupational exposure controls:

#### Respiratory protection:

Respiratory protection necessary at/for insufficient ventilation.

#### Hand protection:

For prolonged or repeated handling the following glove material must be used: nitrile rubber or butyl rubber . Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer.

Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles: DIN EN 374 Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

#### eye protection:

Wear closely fitting protective glasses in case of splashes.

#### Body protection:

Wear suitable protective clothing.

#### Protective measures:

After contact clean skin thoroughly with water and soap oder use appropriate cleanser.

## 9. Physical and chemical properties

### Appearance:

**Physical state:** liquid

**Paint:** as labeled

**Odour:** typical

### Safety relevant basis data

	unit	Method	Remark:
<b>Flash point (°C):</b>	240 °C	DIN 53213	
<b>Vapour pressure:(at temperature in °C): 20</b>	mbar		
<b>density:(at temperature in °C): 20</b>	1,24 g/cm <sup>3</sup>	DIN 51757	
<b>Water solubility (g/l):</b>	insoluble		
<b>Viscosity:</b>		DIN 53018	Observe technical data sheet.
<b>solvent content:</b>			
<b>Organic solvents:</b>	0 % by weight		

## 10. Stability and reactivity

### Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

### Materials to avoid

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## 11. Toxicological information

No data on preparation itself available.

### Practical experience

Other observations:

Irritation:

Irritating to eyes, respiratory system and skin.

May cause sensitization by inhalation and skin contact.

### Overall Assessment on CMR properties:

This substance does not meet the criteria for classification as CMR category 1 or 2.

There is no information available on the preparation itself . The preparation has been assessed following the conventional

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method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

### 12. Ecological information

#### Overall evaluation:

There is no information available on the preparation itself .  
Do not allow to enter into surface water or drains.

#### Results of PBT assessment

This substance does not meet the criteria for classification as PBT or vPvB.

### 13. Disposal considerations

#### Appropriate disposal / Product

##### Recommendation:

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

#### Control report for waste code/ waste marking according to EAKV:

070208 other still bottoms and reaction residues

#### Contaminated packaging:

##### Recommendation:

Cleaned containers may be recycled. Vessels not properly emptied are special waste.

### 14. Transport information

Transport according to ADR/RID, IMDG and ICAO/IATA.

#### Land transport (ADR/RID)

Class:	not a dangerous good
Hazard label:	n.a.
UN-No.:	n.a.
Hazard identification number (Kemler No.):	n.a.
Proper Shipping Name	
Packing Group:	n.a.
Tunnel restriction code:	-

#### Sea transport (IMDG)

Class:	n.a.
Hazard label:	n.a.
EmS-No.:	n.a.
UN-No.:	n.a.
Proper Shipping Name	
Packing Group:	n.a.
Marine pollutant:	n.a.

#### Air transport (ICAO-TI / IATA-DGR)

Class:	n.a.
UN-No.:	n.a.
Packing Group:	n.a.

### 15. Regulatory information

#### EU legislation

#### Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

#### Labelling (67/548/EEC or 1999/45/EC)

#### Danger symbol(s) and danger term(s) for dangerous materials and preparations:



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### Contains:

diphenylmethanediisocyanate, isomeres and homologues

### R phrases:

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36/37/38 Irritating to eyes, respiratory system and skin.  
40 Limited evidence of a carcinogenic effect.  
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48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

### S-phrases:

24 Avoid contact with skin.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
36/37 Wear suitable protective clothing and gloves.  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
51 Use only in well-ventilated areas.  
23 Do not breathe vapour.

### Special provisions concerning the labelling of certain mixtures

91 Contains isocyanates. May produce an allergic reaction.

### Other regulations (EU):

#### Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/l) ISO 11890-2: 0,000

### National regulations

#### Informations on working limitations:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

#### Other regulations, restrictions and prohibition regulations:

Giscode:GISCODE PU 40

## 16. Other information

### Wording of the r-phrases under paragraph 3:

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36/37/38 Irritating to eyes, respiratory system and skin.  
40 Limited evidence of a carcinogenic effect.  
42/43 May cause sensitization by inhalation and skin contact.  
48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

### Further remarks:

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.