

# E.C. Safety Data Sheet

in accordance with regulation (EC) 1907/2006



Status: 02.11.2007

Version: 3.1

**ROHACELL® S (Type: 51, 71, 110, 200)**

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## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### ROHACELL® S (Type: 51, 71, 110, 200)

#### Recommended use(s):

core material for sandwich structures

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## 2. Hazards Identification

No particular hazards known.

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## 3. Composition/Information on Ingredients

Foam plastic on the basis of polymethacrylimide (containing phosphonic acid esters as flame retardant)

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## 4. First Aid Measures

#### After contact with eyes

If mechanical irritation occurs flush eyes thoroughly with a large amount of water, consult a physician if irritation persists. (possible during machining processes)

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## 5. Fire-fighting Measures

#### Suitable extinguishing media

foam, carbon dioxide, dry chemical, water spray

#### Unsuitable extinguishing media for safety reasons

full water jet

#### Special protective equipment for fire fighting

Wear self-contained breathing apparatus.

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## 6. Accidental Release Measures

#### Methods of cleaning / adsorption

Take up mechanically. Dispose of in accordance with regulations.

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## 7. Handling and Storage

### Handling

#### Instructions on safe handling

During thermal processing and/or machining local exhaust ventilation at processing machines is necessary.

#### Information on fire and explosion protection

No special measures required.

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## 8. Exposure Controls/Personal Protection

**Components or products of decomposition according to point 10, with limit values related to the place of work which require monitoring**

### dust, particulates

WEL (long-term) 2005  
(inhalable)

10 mg/m<sup>3</sup>

WEL (long-term) 2005  
(respirable dust)

4 mg/m<sup>3</sup>

### Occupational exposure controls

For monitoring procedures refer to for instance "Empfohlene Analyseverfahren für Arbeitsplatzmessungen", Schriftenreihe der Bundesanstalt für Arbeitsschutz and "NIOSH Manual of Analytical Methods", National Institute for Occupational Safety and Health

### Personal protective equipment

#### Hygiene measures

Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream.

#### Respiratory protection

dust mask may be required for machining operations

#### Hand protection

protective gloves against mechanical risks according to EN 388

#### General information

Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.

#### Eye protection

goggles for machining operations

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## 9. Physical and Chemical Properties

### Appearance

|          |                       |
|----------|-----------------------|
| Form :   | sheets                |
| Colour : | slightly yellow-brown |
| Odour :  | odourless             |

### Data relevant to safety

#### Changes in physical state

|                       |                |
|-----------------------|----------------|
| Softening Temperature | not applicable |
| Boiling Temperature   | not applicable |

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|                                 |  |
|---------------------------------|--|
| <b>Flash point</b>              | not determined   |
| <b>Ignition temperature</b>     | approx. 350 - 600 °C (with and without flame, depending on type) |
| <b>Auto ignition</b>            | not determined   |
| <b>Lower explosion limit</b>    | not applicable   |
| <b>Upper explosion limit</b>    | not applicable   |
| <b>Vapour pressure</b>          | not determined   |
| <b>Density</b>                  | 0.05 - 0.2 g/cm <sup>3</sup> at 20 °C (depending on type)        |
| <b>Solubility in water</b>      | insoluble  |
| <b>Solubility (qualitative)</b> | partly soluble in dimethyl formamide                             |
| <b>pH-value</b>                 | not applicable   |
| <b>Viscosity (dynamic)</b>      | not applicable   |
| <b>Further information</b>      | none   |

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## 10. Stability and Reactivity

**Thermal decomposition**  
> 350 °C

**Hazardous reactions**  
No hazardous reactions known.

**Hazardous decomposition products**  
Hazardous decomposition products: carbon monoxide, nitriles, phosphorus oxides (e.g. P<sub>2</sub>O<sub>5</sub>), phosphoric acids

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## 11. Toxicological Information

### General information

The product has not been tested toxicologically. When handled and used as directed the product will not cause hazardous effects to health according to studies on similar products and practical experience. Avoid skin and eye contact and inhalation of product dust.

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## 12. Ecological Information

### General information

The product has not been tested ecotoxicologically. On the basis of the products consistency as well as its low water solubility a bioavailability is unlikely. Studies on products with similar composition confirm this assumption.

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## 13. Disposal considerations

### Product

Waste is non-hazardous. It should be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.

### Uncleaned packaging

Untampered packaging may be taken for recycling.

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## Code of waste EWC

12 01 05

wastes from shaping and physical and mechanical surface treatment of metals and plastics - plastic shavings and turnings

Always check the given waste codes according to the actual conditions of manufacturing, formulation or use in your facilities.

## 14. Transport Information

### Further information

Not a dangerous good within the meaning of transportation regulations.

## 15. Regulatory Information

### Labelling in accordance with directive 1999/45/EC

not applicable

### Additional Information on Classification

On the basis of the toxicological and ecotoxicological findings on analogue products we have available up to now, labelling according to EC-directive 1999/45/EC does not apply.

### Status of Registration

|             |                    |
|-------------|--------------------|
| EINECS (EU) | listed or exempted |
| TSCA (USA)  | listed or exempted |
| DSL (CDN)   | listed or exempted |
| AICS (AUS)  | listed or exempted |

## 16. Other Information

### Miscellaneous information

none

### References

relevant manuals and publications  
own examinations  
own toxicological and ecotoxicological studies  
toxicological and ecotoxicological studies of other manufacturers  
SIAR  
OECD-SIDS  
RTK public files

Places marked by || have been amended from the last version.

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