



# SAFETY DATA SHEET: SD/S12

in accordance with 91/155/EC and § 14 Regulation on Dangerous Substances (GefStoffV).  
Revised on 05.02.2003

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

### Information on the product

The safety data sheet is valid for the following products:

Trade names

**polimell** Expanded polystyrene board  
**NUT & FEDER** Polystyrene insulating board  
**RAIL FIXING SYSTEM Styropor® insulating boards**  
**Reveal boards Styropor®**  
**sd base insulating boards**

### Information on the manufacturer / supplier

Manufacturer/Supplier: KNAUF MARMORIT GmbH  
Street/PO Box: Ellighofen 6  
Country code/Postcode/Town: D-79283 Bollschweil  
Telephone: (0 76 33) 8 10-0  
Fax: (0 76 33) 8 10-113  
Contact for information: Quality control  
Telephone: (0 76 33) 8 10-142  
Emergency information: Advice Centre for Symptoms of Poisoning and Embryo  
Toxicology, Berlin  
Emergency number: (0 30) 1 92 40

## 2. Composition/information on ingredients

Chemical characterisation:

EPS – expanded polystyrene in accordance with DIN 18164T1 and T2, containing brominated cycloaliphatic hydrocarbon as flame-proofing agent.

CAS no.: 9003-53-6  
Designation: polystyrene rigid foam  
Content: > 99 weight%

CAS no.: 25637-99-4  
Designation: hexabromcyclododecane  
Content: < 0.8 weight%

Hazardous ingredients:  
None

## 3. Hazards identification

Identification of hazards:  
Not applicable

Special hazards for humans and the environment:  
None

## 4. First aid measures

General information:  
No special measures required.

## **5. Fire-fighting measures**

Suitable fire-extinguishing agents:  
Water mist, foam, dry extinguishing agents

Fire-extinguishing agents which must not be used for safety reasons:  
Full water jet

Special hazard caused by product, its combustion products or resulting gases:  
The following may be released in a fire: soot, carbon dioxide, carbon monoxide.

No special hazard from traces of other decomposition products: styrol, hydrogen bromide.  
Hazard-inducing smoke gas: Carbon monoxide  
Restricted vision as a result of smoke formation.

Special protective equipment for fire-fighters:  
None

## **6. Accidental release measures**

Person-related safety precautions  
None

Measures for cleaning/collecting:  
Not applicable

## **7. Handling and storage**

### **Handling**

Instructions for safe handling:  
When stored appropriately, no special measures are required.

Information about protection against fire and explosion:  
EPS foamed plastics are flammable; classified in accordance with DIN 4102T1 as flame-proof, building materials class B1 and do not drip or break up when burning.  
When working with an open flame, fire extinguishers should be on hand.  
In the event of fire, restricted vision as a result of smoke formation.

### **Storage**

Demands on storerooms and containers:  
Maintain storage temperature < 80°C. Note incompatibility with organic extinguishing agents

## **8. Exposure control and personal protection equipment**

not applicable

Personal protective equipment:  
Observe general protective and hygienic measures

Breathing protection:  
EPS foamed plastics may be worked on with knives and handsaws. When using hot wire cutters in closed rooms, the vapours created should be extracted.

## **9. Physical and chemical properties**

### **Appearance**

Form: boards  
Colour: white  
Odour: odourless

### **Safety data**

Change in physical state:

Melting point/melting range: > 100°C  
Softening point: 840°C  
Flammability:  
(rigid, gaseous) flame-proof  
in accordance with DIN 4102, T1  
Ignition temperature: approx. 370°C  
Self inflammability: approx. 450°C  
Explosion hazard: not applicable  
Vapour pressure: not applicable  
Density: 10 – 30 kg/m<sup>3</sup>  
Solubility: insoluble in water, soluble in  
organic solvents and in  
aromatic hydrocarbons  
pH value: not applicable  
Distribution coefficient: not applicable  
Viscosity: not applicable  
Solvent separation test: not applicable  
Solvent content: not applicable  
Further information: not applicable

### **10. Stability and reactivity**

Conditions to be avoided:

The product is stable and inactive under normal usage, storage and handling conditions.

Materials to be avoided:

Temperatures > 100°C, ignition sources and solvents

Hazardous decomposition products:

In the event of fire: carbon monoxide (CO)

### **11. Toxicological information**

Acute toxicity:

Non toxic

### **12. Ecological information**

Information on elimination (persistence and biodegradability):

EPS is chemically neutral, is not water soluble and does not generate any water-soluble materials that could result in pollution of the ground-water; it is not attacked chemically. EPS does not decompose itself but it does encourage the decaying process at dump sites or in composting.

### **13. Disposal instructions**

#### **Product:**

Recommendation:

Recycling possible up to 100%. No hazardous waste, disposal with domestic waste is possible. When disposing of the waste, the regulations and laws of the respective states must be observed. Problem-free thermal reprocessing in refuse incineration plants to generate energy.

Waste code number: 17 06 04

Waste name: insulation material with the exception of that which comes under 17 06 01 and 17 06 03.

#### **Uncleaned packing material**

Not applicable

### **14. Information on Transport**

No hazardous goods within the meaning of national and international transport regulations.

### **15. Regulations**

#### **Marking according to EC guidelines:**

No marking is prescribed (no hazardous material)

Special marking of particular preparations:

No marking is prescribed (no hazardous material)

National regulations:

EPS rigid foam is not subject to the Regulation on Dangerous Substances (GefStoffV) and is not named in Annexes II to IV of the Hazardous Incident Ordinance of 1991. The product is not a material requiring particular monitoring in accordance with the Ordinance on the Determination of Waste (AbfBestV).

Water pollution class:

WGK = 0 (list material); in general, not water-hazardous.

The information provided above is based on our present state of knowledge and does not represent any guarantee on characteristics. The recipient of our product is responsible for observing existing laws and regulations.

Department issuing data sheet:

Quality control

Contact person:

Dr. Sigmund