



# Safety Data Sheet

According to regulation (EC) no 1907/2006 (REACH)

Print date: 2012-04-10

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Version No.: 1.2

Replaces version: 1.1

Revise to Version No.:1.0 – *Company Address, Phone and Fax Number*

Revise to Version No.:1.1 – *Mail Address*

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## ***SECTION 1: Identification of the substance/mixture and of the company/undertaking***

### **1.1: Product identifier**

**Name:** Expanded Polystyrene

**Synonym:** EPS, Poly(phenylethen)

**Trade name:** COMPACFOAM CF100 - CF400

**Product:** Expanded Polystyrene hard foam (EPS) EN 13163:2008

**CAS-Nr.:** for polymer amount (>98wt-%) = 9003-53-6 (Polystyrene)

### **1.2: Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses:** high strength insulations for constructional applications

### **1.3: Details of the supplier of the safety data sheet:**

**Manufacturer:** COMPACFOAM GmbH

**Address:** Brünnerstrasse 241-243, GHI Park H3

**Zip-Code/Country:** A-2201 Gerasdorf bei Wien

### **Technical information:**

**Phone:** 0043 22 46 50 70 9

**Fax:** 0043 22 46 50 70 9 11

**E-Mail:** office@compacfoam.com

### **1.4: Emergency contact**

**Emergency call:** 0043 22 46 50 70 9

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## ***SECTION 2: Hazards identification***

### **2.1: Classification of the substance or mixture:**

No classification necessary.

### **2.2: Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

No classification necessary

### **2.3: Other hazards**

There are no special hazards

## ***SECTION 3: Composition/information on ingredients***

### **3.1: Substances**

#### **Major component**

**Name:** Polystyrene

**CAS-Nr.:** 9003-53-6 (Polystyrene)

Does not contain partially and fully halogenated hydrocarbons. For the manufacture of EPS raw material EPS granulate is used. It consists of the plastic polystyrene. Only a very small amount of pentane, which is necessary for the production of EPS, is present in the finished EPS. The foam-cells are filled completely with air (approximately 60-90%). COMPACFOAM contains a flame retardant, which is incorporated into the polymer matrix. All materials used aging- and moisture-resistant when they are installed. This keeps the level of insulation and the mechanical properties during the lifetime unchanged.

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## ***SECTION 4: First aid measures***

### **4.1 Description of first aid measures**

No special measures

### **4.2 Most important symptoms and effects, both acute and delayed**

No symptoms

### **4.3 Notes for the doctor:**

No notes

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## ***Section 5: Measures for Firefighting***

### **5.1: Extinguishing media**

**Suitable:** water mist, foam, dry extinguishing media, carbon dioxide

**Unsuitable:** water jet

### **5.2 Special hazards arising from the substance or mixture**

**Hazardous combustion products:** soot, carbon dioxide, carbon monoxide

**Dangerous combustion product:** carbon monoxide

No special Danger caused by other combustion products: styrene, bromide hydrogen

### **5.3: Advice for fire-fighters**

**Due to safety reasons unsuitable extinguishing media:** water jet

**SECTION 6: Accidental release measures****6.1: Personal precautions, protective equipment and emergency procedures**

View blocked by smoke formation

**Protective equipment:** protective clothes and self-convection respirator

**6.2: Environmental precautions**

No special measures

**6.3: Methods and material for containment and cleaning up**

No special measures

**6.4: References to other sections**

Not necessary

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**SECTION 7: Handling and storage**

**7.1 Precautions for fire- and explosion-preventing:** EPS foam is combustibile, evaluated according to EN 3501-1-2002, building material class E as well as non-flaming droplets/particles. When working with open flame fire extinguisher should be ready. No hot wire cutting in non-ventilated rooms.

**Aerosol and dust generation preventions:** no special measures

**Environmental precautions:** no special measures

**Hygiene measures:** general safety- and hygiene measures

**7.2: Conditions for safe storage, including any incompatibilities**

**Technical measures and storage conditions:** normal handling and storage conditions

Requirements for storage rooms and vessels: no special requirements needed. Keep storage temperature <70°C. Avoid contact with organic solvents.

Storage class: 11

**7.3 Specific end uses:**

No specific recommendations

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**SECTION 8: Exposure controls/personal protection****8.1: Control parameters**

No parameters necessary

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**8.1.1: Occupational exposure limits:**

No limits necessary

**8.1.2: DNEL- and PNEC- values**

Not necessary

**8.1.3: Control-Banding (e.g. ILO, EMKG)**

**Relevant parameters:** not necessary

**Relevant safety guidelines:** not necessary

**8.2: Exposure controls**

No control necessary

**8.2.1: Suitable technical control systems**

None necessary

**8.2.2: Personal protective equipment**

**Eye / face protection:** general safety- and hygiene equipment

**Skin protection:** general safety- and hygiene equipment

**Hand protection:** general safety- and hygiene equipment

**Respiratory protection:** general safety- and hygiene equipment

**Heat / freeze protection:** general safety- and hygiene equipment

**8.2.3: Environmental exposure controls:**

None necessary

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**SECTION 9: Physical and chemical properties****9.1: Information on basic physical and chemical properties**

**Form:** Blocks, Plates, various Parts

**Color:** mostly white

**pH (20 °C):** not necessary

**Melting point/range (°C):** >100°C

**Initial boiling point/range (°C):** 450°C

**Flash point (°C):** 370°C

**Heat resistance short term:** 85°C

**Heat resistance long term:** 75°

**Ignition temperature (°C):** not necessary

**Vapour pressure (hPa) at ...°C):** not necessary

**Density (kg/m<sup>3</sup>) at 23°C:** 80-500

**Bulk density (kg/m<sup>3</sup>):** not necessary

**Water solubility (20°C in g/l):** insoluble

**Solubility(ies):** organic solvents and aromatic hydrocarbons

**Partition coefficient:** not necessary

**Solvent content:** not necessary

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**Viscosity, dynamic (mPa s):** not necessary

## **9.2: Additional information**

not necessary

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## ***SECTION 10: Stability and reactivity***

### **10.1 Reactivity**

The product is stable and unreactive with normal use, storage and handling conditions.

### **10.2 Chemical stability**

Chemical neutral

### **10.3 Possibility of hazardous reactions**

Not necessary

### **10.4 Conditions to avoid:**

Contact with ignition sources and solvents

### **10.5 Incompatible materials:**

Organic solvents and aromatic hydrocarbons

### **10.6 Hazardous decomposition products:**

**In case of fire:** carbon monoxide

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## ***SECTION 11: Toxicological information***

**Acute toxicity:** non toxic

**Skin corrosion/irritation:** no irritation or corrosion

**Eye damage/irritation:** no damage or irritation

**Irritation to respiratory tract:** no irritation

**Germ cell Mutagenicity:** no effect

**Carcinogenicity:** no effect

**Reproductive toxicity:** no effect

**Specific target organ toxicity (single exposure):** no effect

**Specific target organ toxicity multiple exposures):** no effect

**Aspiration hazard:** no effect

**SECTION 12: Ecological information****12.1: Toxicity**

Not toxic

**12.2: Persistence and degradability**

EPS is chemically inert, insoluble in water and gives off no water-soluble substances which could lead to contamination of groundwater. It is not chemically attacked. EPS itself is not rotted, but supports the rotting in landfills.

**12.3: Bio accumulative potential**

No potential

**12.4: Mobility in soil**

Not effect

**12.5: Results of PBT and vPvB assessment**

No classification necessary

**12.6: Other adverse effects:**

No effects

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

EPS foam can be reused thermal, feedstock and thru recycling. The waste disposal regulations and laws of each country must be observed. EPS is not a hazardous waste, the deposit on household and industrial waste landfills and incinerators is easily possible.

**13.2 Treatment of contaminated packaging**

No special treatment

**13.3 Waste codes / waste designations according to EWC / AVV:**

AVV-Code: 170604

**13.4 Special Measures**

No special measures

**13.5 specific Regulations:**

Not classified as chemical or hazardous waste.

**SECTION 14: Transport information****14.1: UN-number**

Not necessary

**14.2: Proper UN transport classification**

Not necessary

**14.3: Transport hazard classification****Classification due EU regulation:** no classification necessary (hazardous substance)**Special Classification of Mixtures:** no classification necessary (hazardous substance)**14.4: Packaging group**

Group III

**14.5: Environmental hazard**

No hazards

**14.6: Special precautions for user:**

No special precautions

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:**Not classified as chemical or hazardous waste.

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**SECTION 15: Regulatory information****15.1: Safety, health and environmental regulations/legislation specific for the substance or mixture**

Compacfoam is no hazardous substances and needs no classification

**15.2: Chemical Safety Assessment**Not necessary

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**Section 16: Additional Information**

The above information is based on our present knowledge and does not guarantee properties of Compacfoam. Existing legislation and regulations have to be considered by the recipient of our products.