COMPACFOAM

Safety Data Sheet

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

Revision date: 2021-01-12

Version No.: 1.7 Replaces version: 1.6

Revise to Version No.:1.0 – *Company Address, Phone and Fax Number*
Revise to Version No.:1.1 – *Mail Address*
Revise to Version No.: 1.2 – *Address and Phone Number, Changes in Design*
Revise to Version No.: 1.3 – Revision of Information on ingredients (Section 3)
Revise to Version No.: 1.4 – Revision of Information on ingredients (Section 3)
Revise to Version No.: 1.7 – Revision of Information on ingredients (Section 3)

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

1.1: Product identifier

Name: Expanded Polystyrene
Synonym: EPS
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: Resselstr. 7-11
Zip-Code/Country: A-2120 Wolkersdorf im Weinviertel

Technical information:
Phone: 0043 2245 20 8 02
Fax: 0043 2245 20 8 02 329
E-Mail: office@compacfoam.com

1.4: Emergency contact

Emergency call: 0043 2245 20 8 08

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)

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 (<0.5%). The foam-cells are filled completely with air (approximately 60-90%). The flame retardant HBCD (CAS-No. 25637-99-4 or 3194-55-6, EG-Nr. 247-148-4 or 221-659-9) in a concentration above 0,1 % (w/w) is not contained in Compacfoam. As flame retardant is used a Brominated styrene-butadiene copolymer (Polymer FR).
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.

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

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

SECTION 7: Handling and storage

7.1 Precautions for fire- and explosion-preventing: EPS foam is combustible, evaluated according to EN 3501-1-2002, building material class E. When working with open flame fire extinguisher should be ready. No hot wire cutting in non-unventilated 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

SECTION 8: Exposure controls/personal protection

8.1: Control parameters

No parameters necessary

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

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^3) at 23°C: 80-500
Bulk density (kg/m3): 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
Viscosity, dynamic (mPa s): not necessary

9.2: Additional information

not necessary

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

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

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.

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.

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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: Enviromental hazardd

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.

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

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 recipent of our products.

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