COMPACFOAM

# Safety Data Sheet.

## according to the REACH Regulation (EC) 1907/2006 & Regulation (EU) 2020/878

## Content

Section 1.

# Identification of the substance/mixture and of the company/undertaking.

## 1.1. Product identifier

| | |
|---|---|
| Name: | Expanded Polystyrene |
| Synonyme: | EPS |
| Trade name: | COMPACFOAM, CF100, CF125, CF140, CF150, CF200, CF290, CF300, CF400, CFeco, CFeco200 |
| Product: | Expanded Polystyrene hard foam (EPS) EN 13163:2008 |
| CAS-Nr.: | for polymer amount (>98wt-%) = 9003-53-6 (Polystyrene) |
| CAS-Nr.: | for flame retardant: 1195978-93-8 (PolyFR) |
| EINECS No: | None assigned |
| REACH: | Registration No: None assigned |

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

| | |
|---|---|
| Identified use(s): | Pressure-resistant thermal insulation for structural applications;<br>Core element for sandwich panels; pressure-resistant construction material |
| Uses advised against: | none known |

## 1.3. Details of the supplier of the Safety Data Sheet

| | |
|---|---|
| Manufacturer: | COMPACFOAM GmbH |
| Street: | Resselstrasse 7-11 |
| ZIP/Place: | A - 2120 Wolkersdorf im Weinviertel |
| Phone: | +43 2245 20 8 02 |
| E-Mail: | office@compacfoam.com |

## 1.4. Emergency telephone number

Poison Information Center (Austria): +43 1 406 43 43

Section 2.

# Hazards identification.

## 2.1. Classification of the substance or mixture

No hazardous substance or mixture.
Regulation (EC) No. 1272/2008 (CLP): None assigned

## 2.2. Label elements

No hazard pictogram, no signal word(s), no hazard statement(s), no precautionary statement(s)

## 2.3. Other hazards

This substance/mixture contains no components in concentrations equal to or greater than 0.1%, classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

Environmental information: The substance/mixture does not contain any components that have endocrine disrupting properties in quantities of 0.1 % or more according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605.

Toxicological information: The substance/mixture does not contain any components that have endocrine disrupting properties in quantities of 0.1 % or more according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605.

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 to produce 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) is not contained in COMPACFOAM.
All materials used are aging- and moisture-resistant when they are installed.
This keeps the level of insulation and the mechanical properties during the lifetime unchanged.

Abschnitt 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 information available.

### 4.3. Notes for the doctor

Treat symptomatically. No information available.

Section 5.

# Firefighting measures.

### 5.1. Extinguishing media

Suitable extinguishing media: Water spray. Foam, dry chemical powder, carbon dioxide (CO2)

Unsuitable extinguishing media: solid water stream

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

Can be released in the event of a fire:

Soot, carbon dioxide, carbon monoxide, styrene, hydrocarbons, nitrogen oxides, hydrogen bromide

### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus if necessary. Full protective suit.

Additional instructions: Do not allow extinguishing water to enter the sewage system, soil or bodies of water.

Contaminated extinguishing water and soil must be disposed of in accordance with local regulations.

Extinguishing media unsuitable for safety reasons: Solid water stream

Section 6.

# Accidental release measures.

### 6.1. Personal precautions, protective equipment and emergency procedures

Comply with legal protection and safety regulations

### 6.2. Environmental precautions

No special measures

### 6.3. Methods and material for containment and cleaning up

Pick up mechanically

### 6.4. Reference to other sections

See also section 7 and 8

Section 7.

# Handling and storage.

## 7.1. Precautions for safe handling

Measures to protect against fire and explosion:
EPS foams are combustible; rated according to EN 3501-1-2002, building material class E.
Fire extinguishers should be available when working with open flames. Only use the product in places where open light, fire and other sources of ignition are kept away.

Notes on safe handling:
Ensure sufficient air exchange and/or extraction in work areas.
Avoid stirring up dust - vacuum rooms instead of sweeping. Saw on a firm base.
Do not cut hot wire in unventilated rooms.

General hygiene measures:
Observe general protective and hygiene measures. Do not eat, drink or smoke while working.

## 7.2. Conditions for safe storage, including any incompatibilities

Information on storage conditions: normal handling and storage conditions
Requirements for storage rooms container: Maintain storage temperature <70°C.
Note incompatibility with organic solvents.
Storage class: 11

## 7.3. Specific end use(s)

Mainly used to produce pressure-resistant insulation,
as a core material for sandwich panels and as a construction material.

Section 8.

# Exposure controls/personal protection.

## 8.1. Control parameters

### 8.1.1. Occupational exposure limits

Not applicable

### 8.1.2. Occupational exposure limits (AGW) Germany

Not applicable

### 8.1.3. DNEL- and PNEC- values

Not applicable

### 8.1.4. Control-Banding (e.g. ILO, EMKG)

Relevant parameters: not necessary

Relevant safety guidelines: not necessary

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

Users are recommended to consider the national occupational exposure limits or other equivalent values.

### 8.2.2. Personal protection equipment

a) Eye/face protection

Safety goggles should generally be worn during mechanical processing (planing, sawing, drilling, milling)

b) Skin protection

Use moisturising creams after every cleansing, and ointment for very dry skin.

c) Respiratory protection

Ensure good ventilation. If dust is present, e.g. when cutting and sanding we recommend a P1 dust mask. Respiratory protection according to EN143.

### 8.2.3. Environmental Exposure Controls

No special environmental protection measures required. The directives of the European Community applicable to the EPS industry and local regulations for volatile organic compounds (VOC) applicable to the EPS industry must be observed.

Section 9.

# Physical and chemical properties.

## 9.1. Information on basic physical and chemical properties

Form: Blocks, Plates, various Parts
Color: mostly white
Odour: neutral, odourless
Melting point/range: >100°C
Flammability (solid, gaseous): EN 13501-1-2002, Baustoffklasse E
Ignition temperature: 370°C
Heat resistance short term: 85°C
Heat resistance long term: 75°C
Auto-ignition temperature: about 450°C
Explosion hazard: not applicable
Vapour pressure: not applicable
Density: 80-500 kg/m3
Solubility: Insoluble in water. It is soluble in organic solvents and aromatic hydrocarbons
pH: not applicable
Partition coefficient: not applicable
Viscosity, dynamic (mPa s): not applicable
Solvent separation test: not applicable
Solvent content: not applicable

## 9.2. Other information

none

Section 10.

# Stability and reactivity.

### 10.1. Reactivity
Stable under normal conditions

### 10.2. Chemical stability
Stable under normal conditions

### 10.3. Possibility of hazardous reactions
Not applicable

### 10.4. Conditions to avoid
Contact with ignition sources and solvents, see section 7

### 10.5. Incompatible materials
Ignition sources and solvents

### 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.

### 12.3. Bio accumulative potential

No potential

### 12.4. Mobility in soil

No effect

### 12.5. Results of PBT and vPvB assessment

No classification necessary. This substance/mixture contains no components in concentrations equal to or greater than 0.1%, classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

### 12.6. Other adverse effects

No effects

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.

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 - Insulating material other than those mentioned in 17 06 01 and 17 06 03

### 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 applicable

### 14.2. Proper UN transport classification

Not applicable

### 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

Not applicable

### 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

Section 15.

# Regulatory information.

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No hazardous substances and needs no classification

### 15.2. Chemical Safety Assessment

Not applicable

Section 16.

# Additional information.

The information in this safety data sheet corresponds to our current state of knowledge and comply with national and EU legislation. The working conditions of the user are beyond our knowledge and control.
The user is responsible for compliance with all necessary legal regulations.
The information in this safety data sheet describe the safety requirements
of our product and do not constitute a guarantee of product properties.