



# PASSIVETEC<sup>®</sup> FRM PANELS

## MATERIAL SAFETY DATASHEET

V4 16-11-29 E

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Product Name	PassiveTec® FRM Boards
Product identification	Magnesium and other refractory products
CAS No.	Mixture
EINECS No.	Mixture
REACH Registration No.	None assigned.

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

Identified Use(s)	Moisture resistant fire rated cladding and lining , partitions , duct and tunnel linings.
Uses Advised Against	None known.

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

Company Identification	PassiveTec® SIG plc Hillsborough works Langsett Road Sheffield S6 2LW
Telephone	+44 (0)1925 860999
E-Mail (competent person)	info@passivetec.com

### 1.4 Emergency telephone number

Emergency telephone number	+44 (0) 1925 860999 (Mon-Fri 0900-1700 Hrs)
Languages spoken	English

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### 2.1.1 Regulation (EC) No. 1272/2008 (CLP)

Not classified as hazardous for supply/use.

### 2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name	PassiveTec® FRM Boards
Hazard Pictogram(s)	None assigned
Signal Word(s)	None assigned
Hazard Statement(s)	None assigned
Precautionary Statement(s)	None assigned

### 2.3 Other hazards

Handling of this material may generate a dust which can cause mechanical irritation of the eyes, skin nose and throat.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **Substances** Not applicable

3.2 **Mixtures** Substances in preparations / mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Iron Sulfate	< 10	7720-78-7	231-753-5	Not yet assigned in the supply chain	Acute Tox. 4; H302: Harmful if swallowed. Skin Irrit. 2; H315: Causes skin irritation. Eye Irrit. 2; H319: Causes serious eye irritation.
Cellulose	< 10	9004-34-6	232-674-9	Not yet assigned in the supply chain	Not classified
Calcium Carbonate	< 10	471-34-1	207-439-9	Not yet assigned in the supply chain	Not classified
Iron Oxide	< 10	1345-25-1	215-721-8	Not yet assigned in the supply chain	Not classified



### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

##### Skin Contact

Remove contaminated clothing and wash all affected areas with plenty of water. If irritation occurs, do not rub or scratch, rinse under running water prior to washing thoroughly with water. If irritation (redness, rash, blistering) develops, get medical attention.

##### Eye Contact

Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists: Get medical advice/attention.

##### Ingestion

Get medical advice/attention if you feel unwell. Do not induce vomiting unless instructed to do so by medical personnel.

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

There is potential for low irritation if dust is inhaled which may induce a mild cough. Handling of this material may generate a dust which can cause mechanical irritation of the eyes, skin nose and throat.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

- 5.1 **Extinguishing media**
- Suitable Extinguishing Media** Not classified as flammable. Non-combustible. This product is a fire protection product and will not induce, accelerate or maintain fire. Product will not need to be extinguished. Use fire-extinguishing media appropriate for surrounding materials.
- Unsuitable extinguishing Media** None known.
- 5.2 **Special hazards arising from the substance or mixture** This product does not produce toxic smoke or fumes under fire exposure.
- 5.3 **Advice for fire-fighters** Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation. Ensure suitable personal protection during removal of spillages.
- 6.2 **Environmental precautions** Avoid release to the environment.
- 6.3 **Methods and material for containment and cleaning up** Massive form: Pick up material, avoiding generation of dust. Transfer to a container for disposal or recovery.  
Dust: Sweep spilled substances into containers if appropriate moisten first to prevent dusting. Use vacuum equipment for collecting spilt materials, where practicable. Transfer to a container for disposal or recovery.
- 6.4 **Reference to other sections** See Section: 8, 13

## 7. HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** Ensure adequate ventilation. Avoid breathing dust. In case of inadequate ventilation wear respiratory protection. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin, eyes or clothing. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product.
- Temperature** Ambient temperatures.
- 7.2 **Conditions for safe storage, including any incompatibilities** Store in a cool/low-temperature, well-ventilated (dry) place.
- Storage temperature** Ambient.
- Storage life** Stable under normal conditions.
- Incompatible materials** None known.
- 7.3 **Specific end use(s)** Moisture resistant fire rated cladding and lining, partitions, duct and tunnel linings. See Section: 1.2

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Occupational Exposure Limits

SUBSTANCE		CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Inhalable Dust		None	-	10	-	-	WEL
Respirable Dust			-	4	-	-	WEL
Cellulose	Inhalable Aerosol	9004-34-6	-	10	-	-	WEL
	Respirable Aerosol		-	4	-	-	WEL
Calcium Carbonate	Inhalable Aerosol	471-34-1	-	10	-	-	WEL
	Respirable Aerosol		-	4	-	-	WEL
Iron oxide, fume or respirable dust (as Fe)		1345-25-1	-	5	-	10	WEL

Source: WEL: Workplace Exposure Limit (UK HSE EH40)

#### 8.1.2 Biological limit value

Not established.

#### 8.1.3 PNECs and DNELs

Not established.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Ensure adequate ventilation. Atmospheric concentrations should be minimised and kept as low as reasonably practicable below the occupational exposure limit.

#### 8.2.2 Individual protection measures, such as personal protective equipment (PPE)

Wash contaminated clothing before reuse. Avoid contact with skin and eyes. **Personal protection to be worn as described below when CUTTING boards only.**

##### Eye/face protection



Normally no personal protective equipment is required  
During cutting: Protective eye goggles should be worn to BS EN166 2A5

##### Skin protection



##### Hand protection

Normally no personal protective equipment is required.  
During cutting: The gloves type used must be chosen based on the work activity and duration as well as concentration/quantity of material being handled. Recommended: Wear mechanically protective gloves (EN 388).

##### Skin protection

Normally no personal protective equipment is required.  
During cutting: Wear overalls to avoid excessive dust build up on the skin.

## Respiratory protection



Normally no personal respiratory protection is necessary except when cutting material. An approved dust mask should be worn if exposure to levels above the occupational exposure limit is likely. During cutting: The use of a face mask is required. Recommended: Type EN 149 class FFP1S.

## Thermal hazards

None anticipated.

### 8.2.3 Environmental Exposure Controls

Avoid release to the environment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1</b>	<b>Information on basic physical and chemical properties</b>	(Substances in preparations / mixtures)
	Appearance	Solid, White/ White Grey
	Odour	None
	Odour Threshold	Not established
	pH	Not applicable
	Melting Point/Freezing Point	Not applicable
	Initial boiling point and boiling range	Not applicable
	Flash Point	Non-flammable
	Evaporation Rate	Not established
	Flammability (solid, gas)	Not applicable
	Upper/lower flammability or explosive limits	Not applicable
	Vapour pressure	Not established
	Vapour density	Not established
	Relative density	950 kg/m <sup>3</sup> ± 10 %
	Solubility(ies)	Not applicable
	Partition coefficient: n-octanol/water	Not applicable
	Auto-ignition temperature	Not applicable
	Decomposition Temperature	Not established
	Viscosity	Not applicable
	Explosive properties	Not explosive
	Oxidising properties	Not oxidising
<b>9.2</b>	<b>Other information</b>	None

## 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	None known.
10.4	Conditions to avoid	Keep away from sources of ignition.
10.5	Incompatible materials	None known.
10.6	Hazardous decomposition product(s)	This product does not produce toxic smoke or fumes under fire exposure.

## 11. TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects (Substances in preparations / mixtures)	
	Acute toxicity	Based upon the available data, the classification criteria are not met.
	Ingestion	Based upon the available data, the classification criteria are not met.
	Inhalation	Based upon the available data, the classification criteria are not met.
	Skin Contact	Based upon the available data, the classification criteria are not met.
	Skin corrosion/irritation	Based upon the available data, the classification criteria are not met. Handling of this material may generate a dust which can cause mechanical irritation of the eyes, skin nose and throat.
	Serious eye damage/irritation	Based upon the available data, the classification criteria are not met.
	Respiratory or skin sensitization	Based upon the available data, the classification criteria are not met.
	Germ cell mutagenicity	Based upon the available data, the classification criteria are not met. There is no evidence of mutagenic potential.
	Carcinogenicity	Based upon the available data, the classification criteria are not met. No evidence of carcinogenicity.
	Reproductive toxicity	Based upon the available data, the classification criteria are not met.
	STOT - single exposure	Based upon the available data, the classification criteria are not met.
	STOT - repeated exposure	Based upon the available data, the classification criteria are not met.
	Aspiration hazard	Based upon the available data, the classification criteria are not met.
11.2	Other information	None.

## 12. ECOLOGICAL INFORMATION

12.1	Toxicity	Not classified as a Marine Pollutant.
12.2	Persistence and degradability	No data for the mixture as a whole.
12.3	Bioaccumulative potential	No data for the mixture as a whole.
12.4	Mobility in soil	No data for the mixture as a whole.

12.5	<a href="#">Results of PBT and VPvB assessment</a>	None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.
12.6	<a href="#">Other adverse effects</a>	None known.

### 13. DISPOSAL CONSIDERATIONS

13.1	<a href="#">Waste treatment methods</a>	Dispose of contents in accordance with local, state or national legislation.
13.2	<a href="#">Additional Information</a>	None.

### 14. TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	ADR/RID	IMDG	IATA/ICAO
14.1	<a href="#">UN number</a>	None assigned.	None assigned.
14.2	<a href="#">UN proper shipping name</a>	None assigned.	None assigned.
14.3	<a href="#">Transport hazard class(es)</a>	None assigned.	None assigned.
14.4	<a href="#">Packing group</a>	None assigned.	None assigned.
14.5	<a href="#">Environmental hazards</a>	Not classified.	Not classified.
14.6	<a href="#">Special precautions for user</a>	See Section: 2	
14.7	<a href="#">Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</a>	Not applicable	Not applicable
14.8	<a href="#">Additional Information</a>	None.	

### 15. REGULATORY INFORMATION

15.1	<a href="#">Safety, health and environmental regulations/legislation specific for the substance or mixture</a>	
15.1.1	<a href="#">EU regulations</a>	
	Authorisations and/or Restrictions On Use	None.
15.1.2	<a href="#">National regulations</a>	
	Germany	None known.
15.2	<a href="#">Chemical Safety Assessment</a>	Not available.



## 16. OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

### References

Existing Safety Data Sheet (SDS). Existing ECHA registration(s) for Cellulose (CAS No. 9004-34-6), Calcium Carbonate (CAS No.471-34-1), Iron Sulfate (CAS No.7720-78-7), Iron Oxide (CAS No.1345-25-1).

### LEGEND

<b>LTEL</b>	Long Term Exposure Limit
<b>STEL</b>	Short Term Exposure Limit
<b>DNEL</b>	Derived No Effect Level
<b>PNEC</b>	Predicted No Effect Concentration
<b>PBT</b>	PBT: Persistent, Bioaccumulative and Toxic
<b>vPvT</b>	vPvT: very Persistent and very Toxic
<b>OECD</b>	Organisation for Economic Cooperation and Development

### Training advice

Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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### Annex to the extended Safety Data Sheet (eSDS)

Not available.



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