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**Poly Klear**  
FIBERGLASS + RESIN

# MATERIAL SAFETY DATA SHEET

## POLYKLEAR PET FOAM BOARD P90

### SECTION1: Identification of the substance /undertaking

#### 1.1 Product identity

**POLYKLEAR PET FOAM BOARD P90**

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

Relevant identified uses of the substance or mixture

Technical and structural insulation

Structural foam core

Uses advised against

No data available.

### SECTION2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008(CLP).

#### 2.2 Label elements

Not relevant

#### 2.3 Other hazards

The product may contain residual amounts of blowing agent (hydrocarbon).

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The product may contain residual PET dust or release PET dust during post-operations (e.g. cutting, milling, grinding).

### **SECTION3: Composition/information on ingredients**

#### **3.1 Substances**

Not applicable. The product is not a substance

#### **3.2 Mixtures**

Chemical characterization

Polyethylene Terephthalate Foam

Hazardous ingredients

This product does not contain substances to be mentioned according to EU Regulation 1907/2006 (REACH),annex II

### **SECTION4: First aid measures**

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

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes and launder thoroughly before reusing.

After inhalation

Ensure supply of fresh air.

After skin contact

When in contact with the skin, clean with soap and water.

After eye contact

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Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

After ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting.

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

No data available.

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

No data available.

### SECTION5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Foam; Water spray jet; extinguishing powder; Carbon dioxide

Unsuitable extinguishing media

High power water jet

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

In the event of fire, the following can be released: Carbon monoxide and carbon dioxide

#### 5.3 Advice for firefighters

In case of combustion use a suitable breathing apparatus.

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## **SECTION 6: Accidental release**

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

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8.

For emergency responders

Personal protective equipment (PPE) - see Section 8.

### **6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

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

Take up mechanically. When picked up, treat material as prescribed under heading "Disposal considerations".

### **6.4 Reference to other sections**

No data available.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and after work. Remove soiled or soaked clothing immediately. Do not inhale dust. Avoid contact with eyes.

Advice on protection against fire and explosion

No special measures necessary.

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## 7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight. Care on the danger of electrostatic charges, when stored in very dry areas.

## 7.3 Specific end use(s)

No data available.

## SECTION8: Exposure controls/personal protection

### 8.1 Control parameters

No parameters available for monitoring.

### 8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye /face protection

Safety glasses (EN 166)

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective

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gloves. Protective gloves shall be replaced immediately when physically damaged or worn.  
The design operations thus to avoid permanent use of protective gloves

Environmental exposure controls

No data available.

## SECTION9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form/Colour</b>	solid / white
<b>Odour</b>	odourless
<b>Odour threshold</b>	No data available
<b>pH value</b>	No data available
<b>Boiling point / boiling range</b>	No data available
<b>Melting point / melting range</b>	250
<b>Decomposition point / decomposition range</b>	350
<b>Flash point</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Explosive properties</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Lower flammability or explosive limits</b>	No data available
<b>Upper flammability or explosive limits</b>	No data available
<b>Vapour pressure</b>	No data available

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<b>Vapour density</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Relative density</b>	No data available
<b>Density Value/ Method</b>	95-105 kg/m <sup>3</sup> /ISO 845
<b>Solubility in water/ Reference temperature</b>	insoluble, 20
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Viscosity</b>	No data available
<b>Other information</b>	No data available

**SECTION10: Stability and reactivity****10.1 Reactivity**

No data available.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7)

**10.3 Possibility of hazardous reactions**

None, if handled according to order.

**10.4 Conditions to avoid**

Contact with open flames.

**10.5 Incompatible materials**

No data available.

**10.6 Hazardous decomposition products**

Carbon dioxide; Carbon monoxide; acetaldehyde; Formaldehyde; acidic gases/vapours

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## SECTION11: toxicological information

### 11.1 Information on toxicological effects

Acute oral toxicity	No data available
Acute dermal toxicity	No data available
Acute inhalational toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Reproduction toxicity	No data available
Carcinogenicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available

## SECTION12: Ecological information

### 12.1 Toxicity

Toxicity to fish (acute)	No data available
Toxicity to fish (chronic)	No data available
Toxicity to Daphnia (acute)	No data available
Toxicity to Daphnia (chronic)	No data available

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Toxicity to algae (acute)	No data available
Toxicity to algae (chronic)	No data available
Bacteria toxicity	No data available

#### 12.2 Persistence and degradability

No data available.

#### 12.3 Bio accumulative potential

No data available.

#### 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

No data available.

#### 12.6 Other adverse effects

No data available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

##### Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

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#### **SECTION14: Transport information**

##### **14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.

##### **14.2 Transport IMDG**

The product is not subject to IMDG regulations.

##### **14.3 Transport ICAO -TI / IATA**

The product is not subject to ICAO-TI / IATA regulations.

##### **14.4 Other information**

No data available.

##### **14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

##### **14.6 Special precautions for user**

No data available.

##### **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not relevant.

#### **SECTION15: Regulatory information**

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

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorization)

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According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorization as listed on Annex XIV of the REACH regulation (EC)1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorization

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorization) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorization as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

## 15.2 Chemical safety assessment

No data available.

## SECTION16: Other information

### Further information

The information is based on our current knowledge however it does not represent a guarantee product properties nor does it create any legal obligation

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POLYKLEAR PET FOAM BOARD P90

**A. DESCRIPTION**

Polyklear Polyethylene Terephthalate (PET) foam board P90 is a thermoplastic that produces a lower cost, yet structurally sound core product. Polyethylene Terephthalate (PET) foams is the newest structural core materials in the composite industry. Polyethylene Terephthalate (PET) foams is the newest structural core materials in the composite industry.

**B. MATERIAL PROPERTIES**

Property	Standard	Unit	Average value
Density	ISO 845	kg/m <sup>3</sup>	100
Compression Strength	ISO 844	MPa	1.1
Compression Modulus	ISO 844	MPa	100
Shear Strength	ASTM C273	MPa	0.6
Shear Modulus	ASTM C273	MPa	20
Thermal Conductivity	DIN EN 12667	W/(m·k)	0.026

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#### D. DIMENSIONS

	Thickness	Length	Width
Dimensions [mm]	45-55	1100-2440	1020
Tolerances [mm]	±0.3	±5	±5

#### E. STORAGE

**POLYKLEAR PET FOAM BOARD P90** should be stored in a cool, ventilated warehouse. Away from fire and heat source and should be stored apart with antioxidant. Equipped with corresponding varieties and fire equipment

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