

Safety Data Sheet

With reference to (EC) 1907/2006

Status: 21.03.2012

ArmaFORM® PET FR

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

Product name ArmaFORM® PET FR

Use of the product Technical and structural insulation
Structural foam core

Manufacturer /Distributor

Armacell Benelux S.A.
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www.armacell-core-foams.com

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Emergency Information

Beratungsstelle für Vergiftungserscheinungen und
Embryonaltoxikologie (Giftnotruf Berlin)
Tel: +49 (0)30 - 19240
www.giftnotruf.de

2. HAZARDS IDENTIFICATION

Hazard Designation This product does not require labeling.
Please observe the safety information of this safety data sheet.
Temperature in excess 320°C/608F may liberate to toxic gases in a
small amount.
No particular hazards known.

Additional Information Product may contain residues of gaseous foaming agent.
Dust is produced during dry-state pulverization.
The relevant minimum standards for protective measures in chemical
industry should be observed.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Description Polyethylene terephthalate foam containing flame retardants.

4. FIRST-AID MEASURES

General information No special measures necessary.

In case of inhalation Not expected to be acutely toxic. In case of inhalation of smoke, provide fresh air. Do not breathe the smoke or fumes, but provide fresh air if the temperature exceeds 320°C/608F.

In case of skin contact Not expected to be acutely toxic. In case of contact to molten material, cool the skin with cold water. Do not pull solidified product from the skin. Seek a medical treatment.

In case of eye contact Not expected to be acutely toxic or/and a skin irritant. In case of irritation, wash thoroughly with water.

In case of ingestion Due not induce vomiting. Seek medical advice immediately.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Unrestricted, but including dry powder, spray fog, foam or carbone dioxide. Do not use full water jet.

Special exposure hazards arising from the substance itself, its combustion products or its vapour
Hazardous gases are emitted such as toxic smoke/fumes including oxides of carbon and others under fire conditions.
Do not breathe the combustion gases.
In the case of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURE

Personal precautions See EXPOSURE CONTROLS / PERSONAL PROTECTION

Environmental precautions Sweep or gather up spills and place in proper container for recovery or disposal.
Do not allow to enter drains or waterways.

Methods for cleaning up / taking up
Take up mechanically.

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7. HANDLING AND STORAGE

Hints for safe handling

It is essential to design all working procedures principally to avoid inhalation of dust and eye contact.

Do not exceed 320°C/608F to minimize or avoid release of decomposition gases.

Ensure appropriate measures including sufficient local exhaust ventilation in working area 1) to control the generation, accumulation or breathing of the dust or 2) to remove the dust or fumes during convey of further processing.

Hints for protection against fire and explosion

Do not smoke in areas where polymer dust is present.

Take precautions against accumulation of electrostatic charges.

Hints for separation of incompatible products

None

Further information on storage conditions

Store in cool, well-ventilated place between 0 and 40°C. Storage of the foam out of this temperature range may cause a dimensional change.

Protect from fire or direct sunshine.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General health measures

Unnecessary in general.

During machining, gloves, goggles/safety glasses or mask are recommended. In addition, a well-air-ventilated working environment is recommended during processing at high-temperature or thermoforming.

Respiratory protection

Unnecessary in general.

Where applicable, particularly in case of insufficient exhaust ventilation or prolonged exposure, use of a respiratory protection equipment according to EEC-directive 89/686 is recommended.

Hand protection

Unnecessary in general.

Recommended are gloves during further processing or machining like sawing, grinding or milling.

Eye protection

Unnecessary in general.

Recommended are protective goggles/safety glasses during further processing or machining like sawing, grinding or milling.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	solid
Colour	white
Odour	none
Melting point	250 °C
Boiling point	not applicable
Flash point	> 300 °C
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Density at 20 °C	50 - 200 kg / m ³
Water solubility (20 °C)	insoluble

10. STABILITY AND REACTIVITY

Conditions to avoid	Avoid the influence of naked flames, a temperature exceeding the thermal stability of PET, electrostatic charges.
Hazardous reaction	No dangerous reactions known when stored and handled under normal conditions. The product reacts with strong oxidation agents, strong acids or strong bases.
Hazardous decomposition products	No decomposition if used as prescribed.

11. TOXICOLOGICAL INFORMATION

Experience made in practice

When used and handled according to specification, the product does not have any harmful effect according to our experience and knowledge.
Some critical end-uses such as food contact or medical applications are not recommended.

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12. ECOLOGICAL INFORMATION

Persistence and degradability This product is considered non-biodegradable.

Toxicity and remarks The product is classified non-hazardous. But its effect on the wildlife after an ingesting are not well understood and the product may be toxic to aquatic organisms. A proper disposal is required. Release of this product or any waste stream containing this product into ground water, waterways or waste water is prohibited.

13. DISPOSAL CONSIDERATIONS

Disposal product Since this product is not considered as a hazardous waste or material, it can be recycled or disposed as an industrial waste in a manner acceptable to good waste management practice and by an approved waste disposal contractor as well as in compliance with applicable local, state and federal regulations such as Directive 91/156/EEC, 91/68/EEC, 94/62/EEC and subsequent amendments.

List of proposed waste codes in accordance with EWC

European Waste Catalogue:

12 01 05 (plastics shavings and turnings)

Please note: The classification of waste for this product may change according to the field of application. Please observe Decision 2001/118/EC.

Disposal packages Normal disposal path for cardboard packaging.

14. TRANSPORT INFORMATION

Classification No hazardous material as defined by the transport regulations (ADR/RID, IMDGCode, ICAO-TI/IATA-DGR).

Condition Transport in cool, well-ventilated condition between 0 and 40°C. Transport out of this temperature range may cause a dimensional change.
Protect from fire or direct sunshine.

15. REGULATORY INFORMATION

Chemical safety assessment No Chemical Safety Assessment (CSA) is yet available for the component substances.

Labeling This product does not require labeling in terms of preparation directive 1999/45/EC.

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Other regulations

All ingredients of this product comply with the applicable requirements of the current REACH Regulation.

16. OTHER INFORMATION

The data in this safety data sheet correspond to our current level of knowledge and are sufficient for national and EU laws. However, we have no knowledge of or control over the working conditions. The data in this safety data sheet describe the safety requirements of our product and may not be considered to guarantying any product properties.

It is responsibility of the user of this product to ensure that the product is suitable for his intended application/purpose and methods of application. We do not accept any responsibility for harms caused by use of this information. In all cases, our general conditions of sales are effective.