armacell®

MAKING A DIFFERENCE AROUND THE WORLD

# SAFETY DATA SHEET

**with reference to OSHA Hazard Communication Standard (HCS 29 CFR 1910.1200)**

**published in Federal Register 77 FR 17574 - March 2012**

## Armacell Products

**revised 30JUN21, replaces version 28AUG21**



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

**PRODUCT NAME**

FillPro™ Open Cell Backer Rod
(formerly Tundra Foam)

**USE OF THE PRODUCT**

This product is classified as an "article" according to Title 29 of the Code of Federal Regulations, OSHA Part 1910.1200©, page 463.

"*Article* means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees."

Recommended uses include: packaging, cushioning, sound dampening, insulation, sealing, floatation etc.

**MANUFACTURER /DISTRIBUTOR**

Armacell LLC
55 Vilcom Center Drive - Suite 200
Chapel Hill, NC 27514
Phone: (919) 913-0555
www.armacell.us

**Technical contact point:**
Steven Smeltz-Zapata
Technical Manager, Component Foams
Tel: +1 (919) 304-3846 x111408
Fax: +1 (919) 741-5803
E-mail: steven.smeltz-zapata@armacell.com

**EMERGENCY INFORMATION**

Armacell LLC
7600 Oakwood Street Extension
Mebane, NC 27302
Tel: +1-919-304-3846
www.armacell.com

## 2. HAZARDS IDENTIFICATION

**HAZARD DESIGNATION**

Polyurethane foam products are classified by OSHA as "nonhazardous".

Polyurethane is made from polyhydroxyl polyol, isocynates catalyst and other additives (more details in sec.3.).

This product is classified as nonhazardous according to criteria established in OSHA hazard communication standard.

Routes of Exposure:

| | |
|---|---|
| **Swallowing:** | Choking / Mechanical Blockage |
| **Skin Absorption:** | Unlikely |
| **Inhalation:** | Foam dust may cause irritation to nose, throat or lungs |
| **Skin Contact:** | None |
| **Eye Contact:** | Eye injury or irritation possible from dust |
| **Other Effects:** | Not known |

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**DESCRIPTION**

Expanded, closed-cell, cross-linked polyethylene and copolymers of polyethylene foam. Available in rolls, sheets and buns/blocks in various thicknesses and dimensions.

| Compound | Percentage | CAS No. |
|---|---|---|
| Polyurethane | 75 - 100 | 9009-54-5 |

## 4. FIRST-AID MEASURES

**IN CASE OF INHALATION**

Move to fresh air. Seek medical attention if breathing problems persist.

**IN CASE OF SKIN CONTACT**

Wash with soap and water.

**IN CASE OF EYE CONTACT**

Flush eyes with clean lukewarm water. Consult with a physician.

**IN CASE OF INGESTION**

Consult with a physician.

## 5. FIRE-FIGHTING MEASURES

1. Polyurethane foam is combustible and will burn if exposed to sufficient heat source.
2. Fire to be extinguished by using $CO_2$, water or dry chemical.
3. Burning will produce black dense smoke, carbon monoxide and toxic decomposition products.
4. Use self-contained breathing apparatus and full protective clothing. Fire will result in intense heat.
5. Other fire extinguishers (dry chemical, foam or $CO_2$ extinguishers) may be used for extinguishment.
6. Chemical/gaseous hazards like CO, $CO_2$ and carbon may be produced from the smoldering substances and fire.

## 6. ACCIDENTAL RELEASE MEASURE

**PERSONAL PRECAUTIONS**

Not applicable

| | |
|---|---|
| **ENVIRONMENTAL PRECAUTIONS** | Not applicable |
| **METHODS FOR CLEANING UP / TAKING UP** | Take up mechanically.<br><br>Polyurethane foam is combustible. Should not be exposed to sparks or open flame. |

## 7. HANDLING AND STORAGE

| | |
|---|---|
| **HINTS FOR SAFE HANDLING** | None |
| **HINTS FOR PROTECTION AGAINST FIRE AND EXPLOSION** | None |
| **HINTS FOR SEPARATION OF IMCOMPATIBLE PRODUCTS** | None |
| **FURTHER INFORMATION ON STORAGE CONDITIONS** | Can be stored in clean, dry rooms under normal conditions with respect to humidity (50 - 70 %) and surrounding temperature (32 °F - 95 °F)<br><br>Polyurethane foam should be stored under a fusible sprinkler system.<br><br>Polyurethane foam is combustible and should not be stored near ignition sources such as exposed electrical or gas heating elements, open flame and exposed lights.<br><br>Polyurethane foam should be stored in cool, dry and well ventilated locations.<br><br>Polyurethane foam scrap and cuttings should not be allowed to accumulate in storage areas. |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|---|---|
| **GENERAL HEALTH MEASURES** | Not applicable |
| **RESPIRATORY PROTECTION** | Not applicable |
| **HAND PROTECTION** | Not applicable |
| **EYE PROTECTION** | Not applicable |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **PHYSICAL STATE** | Solid |
| **APPEARANCE** | Open cell foam |

| | |
|---|---|
| **COLOR** | Black, grey, blue, brown, green, yellow, silver, orange, red, natural, and various other colors. |
| **ODOR** | Characteristic |
| **MELTING POINT** | + 350 - 375°F |
| **SPECIFIC GRAVITY** | 0.01 - 0.15 |
| **DENSITY** | 0.5 - 30 lb./ft$^3$ |
| **BOILING POINT** | not applicable |
| **LOWER EXPLOSION LIMIT** | not applicable |
| **UPPER EXPLOSION LIMIT** | not applicable |
| **DENSITY AT 20 °C** | 0.5 - 10 lb / ft³ |
| **WATER SOLUBILITY (20 °C)** | Insoluble |

## 10. STABILITY AND REACTIVITY

| | |
|---|---|
| **CONDITIONS TO AVOID** | Avoid open flames.<br><br>Avoid strong acids & alkalis, these will deteriorate foam properties. |
| **HAZARDOUS REACTION** | No dangerous reactions known. |
| **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.<br><br>Polyurethane foam has no carcinogenic substances. Inhalation of foam dust to be avoided. |

## 12. ECOLOGICAL INFORMATION

| | |
|---|---|
| **ADDITIONAL ECOLOGICAL INFORMATION** | The product is classified non-hazardous to waters.<br><br>Polyurethane foam does not exhibit any significant biodegradation. |

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## Armacell Products



## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL PRODUCT**

Polyurethane foam can be reprocessed or can be disposed of in accordance to federal / state and local regulations.

## 14. TRANSPORT INFORMATION

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

## 15. REGULATORY INFORMATION

**REACH**

Excluding the additional restrictions placed on products intended for use in child toy or child care applications, no chemicals or substances listed in REACH (EC No. 1907/2006), including Annex XIV, Annex XVII, and the SVHC list, are intentionally utilized with the intent of substance release under normal end use applications in the formulation process of the Armacell (OleTex®), (EvaLite®) & (OleCell®) product lines.

**Child Toy or Child Care Applications**: Annex XVII includes additional entries with specific substance restrictions on materials intended for use in children articles.

**ROHS**

Armacell (OleTex®), (EvaLite®) & (OleCell®) brand products contain no more than the allowed amounts (either less than 100 or 1000 ppm depending on substance) of the listed hazardous substances.

**ADDITIONAL INFORMATION**

Polyurethane foam has no carcinogenic substances and is classified as nonhazardous under the federal OSHA standards.

For additional regulatory information, contact a Component Foam Division Technical Manager.

## 16. OTHER INFORMATION

The data in this safety data sheet describe the safety requirements of our product based on our current level of knowledge and may not be considered to guarantee any product properties and it is sufficient for **United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS) standard.** However, we have no knowledge of or control over the working conditions. Safe work practices must be employed when working with any materials. It is important that the end user makes a determinationiz regarding the adequacy of the safety procedures employed during the use of this product.