

# MATERIAL SAFETY DATA SHEET

Revision: **3**  
Revised on: **March 10**  
Issue date: **25/04/2009**

## 1. Product and Company Identification

**Product Name** Ethafoam® 2222  
**Product Characteristics** Closed cell Polyethylene foam with density of around 33 kg/m<sup>3</sup>  
**Product Application** Construction  
**Manufacturer** 1) Sealed Air S.r.l., Via Europa, 20040 Bellusco (Milan), Italy  
2) Sealed Air Limited, c/o Knights of Old Ltd., Kettering Parkway, Salthouse Road, Kettering Northants NN15 6 XU, UK  
3) Sealed Air Svenska A.B., Patorpsvägen 2, Norra Industriområdet, S-578 32 Aneby, Sweden  
**Emergency Telephone Number** +39 (0)396835422  
**Person to Contact** Federico Cappellari

## 2. Hazards Identification

- No substances classified as dangerous as per Directive 67/548 are present
- The product at higher temperatures than the decomposition one can produce gases with Carbonic Oxide
- Electrostatic discharges: the product can accumulate electrostatic charges which releasing could create striking of a fire
- The product can contain inflammable gas traces
- The material, in fine particles, can cause eye irritation
- The product, if swallowed, can cause suffocation
- Melted material can cause burns if in contact with skin

## 3. Composition/Information on Ingredients

**Chemical Name** Low Density Polyethylene Foam  
**Formula** (C<sub>2</sub>H<sub>4</sub>)<sub>n</sub>  
**Name** Polyolefine  
**Synonymous** LDPE  
**Hazardous components** None

#### 4. First Aid Measures

<b>Inhalation</b>	In case of inhalation of vapours in the decomposition phase immediately remove to fresh air; rest the person in half erected-position, loosen clothing and keep warm If breathing problems occur consult a physician - medical assistance is needed
<b>Skin Contact</b>	Any melted material on skin causes burnings that have immediately to be cooled with cold water - cover the wound with a sterile cloth - medical assistance is advisable
<b>Eye Contact</b>	This is a solid and inert product, remove as like any other foreign body In case of unsuccessful removal, medical assistance is needed

#### 5. Fire Fighting Measures

<b>Extinguishing Materials Fire Fighting Instructions</b>	Water, foam, carbon dioxide CO <sub>2</sub> , extinguishing powder ABC Melted parts usually burns slowly generating hydrocarburical decompositions substances, and with the presence of burning melted material - employ spray water to cool surfaces exposed to the fire and to protect personnel and stop the fire feed Extinguish the fire cooling with sprayed water
<b>Caution Hazardous Combustion Products</b>	Wear appropriate protective suit Emits hydrocarburical mist Lack of oxygen can produce Carbon Monoxide

#### 6. Accidental Release Measures

<b>Personal Causes Measures</b>	Employ usual working equipment
<b>Ecological Information Cleaning and Collecting Consideration</b>	See item 12 Employ usual working equipment

## 7. Handling and Storage

<b>Handling</b>	<p>Keep away from open flame, source of heat, or ignition sources.</p> <p>Employ correct earthing connection to avoid accumulation that can produce sparks (possible ignition source).</p> <p>An appropriate ventilation system in premises where:</p> <ul style="list-style-type: none"> <li>- A fusion process of the material is held</li> <li>- The material is grinded or processed</li> <li>- Any type of high temperature process is held.</li> </ul>
<b>Storage</b>	<p>Must be stored in ventilated areas, as it may contain traces of inflammable gases.</p> <p>Protect the material from direct sun lights as it may accelerate the deterioration process and affect its quality</p> <p>To have a correct processing keep the material dry (this increases the hazard of static electricity).</p> <p>Stocking Temperature (°C): ambient temperature</p> <p>Transport Temperature (°C): ambient temperature</p> <p>Transport/Storage Pressure (KPa): atmospheric</p>
<b>Uses</b>	<p>Packaging, Construction, Sailing, Automotive, Electronic</p>

## 8. Exposure Controls/Personal Protection

<b>Maximum Exposure</b>	No maximum exposure limit exists for this product
<b>Personal Protective Equipment</b>	<p>No particular protective equipment except regular protection according to the kind of work to be done</p> <p>During processing of this material adequate ventilation system is required</p>

## 9. Physical and Chemical Properties

<b>Physical State</b>	Foam	
<b>Colour</b>	Natural	
<b>pH</b>	N/A	
<b>Boiling Point</b>	N/A (melting temperature 80-100°C)	
<b>Flash Point</b>	340°C (Literature)	
<b>Flammability in Air</b>	N/A	
<b>Explosive Properties</b>		
<b>Oxidising Properties</b>		
<b>Vapour Pressure</b>	N/A	
<b>Autoignition Temperature</b>	350 °C (Literature)	
<b>Relative Density</b>	Raw Material:	From 915 Kg/m <sup>3</sup> to 935 Kg/m <sup>3</sup>
	Final Product:	From 24 Kg/m <sup>3</sup> to 150 Kg/m <sup>3</sup>
<b>Water Solubility</b>	Insoluble in water	
<b>Kinematic Viscosity</b>	N/A	
<b>Vapor Density</b>	N/A	
<b>Evaporation Rate:</b>	N/A	

## 10. Stability and Reactivity

<b>Conditions to Avoid</b>	Temperatures over 300 °C
<b>Materials to Avoid:</b>	Follow the suggestions on point n° 7 about storage
<b>Hazardous Decomposition:</b>	Strong Oxides Carbon Monoxide, inflammable hydrocarbons.

## 11. Toxicological Information

<b>Inhalation</b>	Negligible hazard at ambient temperature Mist generated at high temperatures can cause irritation to eyes and respiratory system
<b>Skin contact</b>	No hazard at ambient temperature (from -18°C to +38°C). Exposure to melted product can cause burns
<b>Eye Contact</b>	Generated powder can be abrasive for the eyes and cause mechanical irritation
<b>Ingestion</b>	Minimum toxicity indication (LD <sub>50</sub> by mouth Mouse >5000 mg/Kg)
<b>Specific Reaction</b>	Additional information available if required

## 12. Ecological Information

<b>Ecotoxicity</b>	No information existing about environmental hazard of the material
<b>Mobility</b>	None
<b>Persistence and Degradability</b>	Very low UV biodegradability
<b>Bioaccumulative Potential</b>	No information existing about environmental hazard of the material
<b>PBT assessment</b>	N/A
<b>Other Adverse Effects:</b>	None

## 13. Disposal Consideration

- Best way to dispose the material incinerate with the recover of energy; dispose in appropriate discharges, or recycling methods
- The material can be recycled

## 14. Transport Information

### **General Caution**

Follow item 7 recommendations about storage  
Avoid any ignition source near the product and the trailer  
Employ only ventilated transportation means

### **Shipping ICAO/IATA**

No regulation existing for the shipping of this product  
No regulation existing for air transportation of this product

## 15. Regulatory Information

In conformity with the EEC rules no DOT is required for this product

## 16. Other Information

Be sure the premises where the product is processed and stored are correctly ventilated

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