

# Safety Data Sheet

Page 1/5

## Safety Data Sheet Multi Protect Foam date (March 2015)

### Chemical Product and Company Identification

Product name: PolyPhen™ Foam Insulation  
Physical State: Bun/Billet in density range 2.5 lb/ft<sup>3</sup> - 20 lb/ ft<sup>3</sup>  
General use: Thermal Insulation  
Chemical family: Cellular foam  
Chemical name: Phenol - Formaldehyde expanded Bakelite rigid foam  
Odor: Odourless  
Chemical Formula: not applicable  
CAS – number: not available

### Manufacturer:

VIC International B.V.  
Polyguard Products, Inc.  
PO Box 755  
Ennis, TX 75120

Customer information number: 1-214-515-5000

### Composition Information on ingredients OSHA hazardous components (29 cfr 1910 1200)

Not hazardous: 100 % completely reacted crosslinked cellular foam product  
Ingredient: Iso pentane S isomere mix  
CAS number: 78-78-4  
EINECS number: 201-142-8  
Percent %: 4-7  
Exposure limits: OSHA Hazardous – flammable  
TWA: 600 ppm (1770 mg/m<sup>3</sup>)  
ACGIH (2002) TLV (mg/m)  
LC 50 breathing /4 hours/rat > 20 mg/l based on extrapolation from similar products and /or based on the extensive database on hydrocarbons  
VOC content: not applicable

### Exposure Limits

Component	List	Type	Value
Iso pentane	ACGIH	TWA	600 ppm

Concentrations of the blowing agent anticipated incidental to proper handling are expected to be well below those which cause acute inhalation effects and below exposure guidelines.

### Hazards Identification

Threshold limit value (TLV): not applicable  
Emergency overview: Product is relatively benign  
Ingestion: Product has a low order of acute oral toxicity

**OSHA Hazard Communication standard**

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200

**Route of exposure**

Inhalation:	Fine particles may produce airway irritation
Ingestion:	No effect anticipated
Skin contact:	Prolonged contact with particles may produce harmless mild irritation
Skin Absorption:	Skin absorption is unlikely due to physical properties
Eye contact:	Fine particles may cause slight mechanical irritation

**Effects of exposure**

Inhalation:	LC 50 not determined for foam dust, from swallowing small amounts Swallowing is unlikely because of the physical state, very low toxicity is swallowed. Harmful effect not anticipated
Ingestion:	Products has a low order of acute oral toxicity
Eye contact:	Fine particles may cause slight mechanical irritation

**Effects of overexposure**

Acute:	Non known
Chronic:	Animal studies indicate that chronic inhalation of expanded Bakelite dust is comparable with any other type of dust

**First AID Measures**

Inhalation :	Contact a physician if coughing , discomfort or air passage obstruction occurs due to inhalation of foam dust If breathing difficulties, dizziness or light headaches occur when working in dusty areas, victim should seek air free of dust, if victim experiences continued breathing difficulties, administer oxygen until medical assistance can be rendered. If breathing stops, begin artificial respiration and seek immediate medical attention.
Skin Contact:	Wipe material from skin. Wash with soap and water. Clean contaminated clothing before reuse
Ingestion:	Wash out mouth with water. Do not induce vomiting. Seek immediate medical advice and/or attention.
Eye contact:	Flush eyes with water for at least 15 minutes or removes any particle. Consult a physician if irritation persists.

**Fire Fighting Measures**

Expanded Bakelite foam is difficult to ignite and tends to not support combustion when the flame source is removed.

Flashpoint:	Not applicable
Flammability limits:	Not applicable
Auto-ignition temperature:	Not determined
Hazardous combustion products:	Primarily carbon dioxide and carbon monoxide will be produced. Traces of other organic compounds may be produced.

**Special Fire-Fighting Procedures**

Evacuate non-emergency personnel to a safe area. Fire-fighters should use self-contained breathing apparatus. Avoid breathing smoke, fumes and decomposition products. Use water spray to drench smouldering foam. Extinguishing media use water, Foam, CO2 or dry chemical.

**Accidental Release Measures**

Land Spill: Material is a solid pick-up and handles as any other inert solid material.  
Water Spill: Material is lighter compared to water the expanded Bakelite foam floats collect floating pieces and handle as any other inert solid material.

**Handling and Storage**

Store in a dry area, protect from abuse and follow all SDS and label warnings Indefinitely with respect to physical properties; however, after some weeks slight colour changes of exposed surface may be noticed, due to exposure to ultraviolet light Cured Expanded Bakelite blocks contain less than 0.05 % free Formaldehyde or Phenol, emission testing under static and dynamic conditions at high temperature and humidity (120F, 90% R.H) produced formaldehyde emissions of less than 0.2 PPM.

**Exposure Controls/Personal Protection**

Engineering Controls: None should be required in an area with free air flow.  
Positive ventilation should be used in confined spaces if dust becomes vident.

**Personal Protection**

Dust mask: Dust mask are to be used by properly trained personnel only. Wear an appropriate and properly fitted dusk mask when cutting, grinding or milling the phenolic foam.  
Protective Clothing: Wear safety glasses, face shields or goggles. The use of gloves (polyvinyl or latex) is recommended. For industrial clothes use clothes made of polyester fibres. Do not wear contact lens without proper eye protection when using phenolic foam.

**Physical and Chemical Properties**

Appearance: Rigid Cellular foam  
Lbs/FT3: 2.5 to 20.0  
Color: Orange for standard 2.5 lb/ft<sup>3</sup>  
Odor: none  
Freezing point: Not applicable  
Boiling point: Not applicable  
Vapor pressure: Not applicable  
Vapor density: Not applicable  
Molecular weight: Not applicable  
Water solubility: Insoluble  
Volatile by volume: Not applicable  
Evaporation rate: Not applicable  
pH: Not applicable  
Viscosity: Not applicable is solid

**Stability and Reactivity**

The cross-linking reaction used to manufacture Expanded Bakelite foam is irreversible

Stability:	Stable
Polymerisation:	Will not occur
Decomposition products:	Decomposition through burning may produce fumes consisting of organic particles, carbon dioxide and carbon monoxide (TLV = 50 PPM)
Incompatible materials:	no conditions to avoid

**Ecological Information**

No data available

**Disposal Considerations**

Waste disposal method: All material should be packaged, labelled transported and disposed or reclaimed in conformance with all applicable local and state regulations.

**Transport Information DOT**

Proper shipping name:	Not regulated
Hazard Class:	Not a hazardous material
Identification number:	Not applicable
Canadian TDG flammability classification:	Not applicable

**Regulatory Information**

No known ingredients which occur at greater than 0.1 % are listed as a carcinogen in the IARC Monographs on the evaluation of the Carcinogenic Risk of Chemicals to Humans, the NTP Annual Report on Carcinogens or OSHA, CFR 1910.1001.1047 subpart Z toxic and Hazardous Substances (specifically Regulate Substances) TSCA : Components of products are listed on the TSCA inventory

CERCLA: Not Applicable

SARA Title III

311/312 Hazard Categories: None

313 Hazard Categories: None

**OSHA Hazard Communication Standard**

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312**

Immediate (Acute) Health Hazard	No
Delayed (Chronic) Health Hazard	No
Fire Hazard	No
Reactive Hazard	No
Sudden Release of Pressure Hazard	No

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313**

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

Contact local authorities to determine if there may be other local requirements.

**Other Information**

Polyguard Products, Inc. encourages and expects you to read and understand the entire SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Polyguard Products, Inc., the data on this sheet relates only to the specific material designed herein. Polyguard Products, Inc. assumes no legal responsibility for use of or reliance upon this date. For information regarding specific applications of the product please contact Polyguard Products, Inc.