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## SAFETY DATA SHEET

### SECTION 1 - Identification

#### 1.1 Product Identifier

Product Name • EPS Block and Board  
Synonyms • Expanded Polystyrene

#### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use • Foam product development

#### 1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer • Carpenter Co.  
5016 Monument Ave.  
Richmond, Virginia 23230  
(804) 233-0606

### SECTION 2 - Hazards Identification

#### 2.1 Classification of the Substance or Mixture

This product is not hazardous in the form in which it is shipped by the manufacturer, but may become hazardous through downstream activities (e.g. grinding, pulverizing) that reduce its particle size. Those hazards are described in Section 11: Toxicological Information.

#### 2.2 GHS Label Element

Not applicable.

#### 2.3 Other Hazards

If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

### SECTION 3 - Composition/Information on Ingredients

EPS Block and Board is an "article", not a chemical, as defined in 29 CFR 1910.1200(c). Therefore, it does not meet the criteria of a substance or mixture.

### SECTION 4 - First Aid Measures

#### 4.1 Description of First Aid Measures

By route of inhalation • Contact a physician if coughing, discomfort, or obstruction of air passage occurs.

By route of dermal contact • Wash skin with soap and water.

By route of eye contact

- If contact with material occurs flush eyes with water.

By route of ingestion

- If more than a mouthful is swallowed, give 1 to 2 glasses of water. Seek medical attention.

## SECTION 5 - Firefighting Measures

### 5.1 Extinguishing Media

Suitable Extinguishing Media

- Dry chemical, foam, carbon dioxide, water fog or fine spray. Do not use direct water spray.

Unsuitable Extinguishing Media

- No data available.

### 5.2 Special Hazards Arising From the Substance or Mixture

- Once ignited, urethane foam is difficult to extinguish. Foam fires that appear to be extinguished may smolder and re-ignite. Always have fire officials determine whether a fire has been extinguished.

### 5.3 Special Protective Actions for Firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Once ignited, urethane foam will burn rapidly, releasing great heat and consuming oxygen at a high rate. In an enclosed space the resulting deficiency of oxygen will present a danger of suffocation to the occupants. Hazardous gases released by the burning foam can be incapacitating or fatal to human beings if inhaled in sufficient quantities.

## SECTION 6 - Accidental Release Measures

No data available

## SECTION 7: Handling and Storage

### 7.1 Precautions for Safe Handling

- Keep away from heat and ignition sources.
- Minimize dust generation and accumulation.
- No open flames, no sparks and no smoking.
- Routine housekeeping should be instituted to ensure that dusts does not accumulate on surfaces.

### 7.2 Conditions for Safe Storage, Including any Incompatibilities

Storage

- Maintain adequate sprinkler protection where large volumes of foam are kept. Check for compliance with insurance regulations, local building codes or other legal requirements. Maintain aisle space to permit access for fire-fighting equipment and personnel to all foam storage areas.

Incompatibilities

- Aromatic solvents, strong oxidizing agents.

Other Information

- Be aware that terms sometimes used to describe

polyurethane foam, like "fire retardant" and "flame resistant", do not mean fire safety under all conditions. Flammability ratings from small-scale laboratory tests are not to be taken as an indication of the materials' behavior under actual fire conditions.

## SECTION 8: Exposure Controls/ Personal Protection

### 8.1 Control Parameters

#### Exposure Limits/Guidelines

- OSHA has established PEL values of 15 milligrams per meters cubed for total dust and 5 milligrams per meters cubed of respirable dust (8-hour TWA) for such particulates.

### 8.2 Exposure Controls

#### Engineering Controls

- Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is not leakage from the equipment). It is recommended that dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

#### Eye/Face Protection

- Unless exposure to foam dust is anticipated, dust masks, goggles, and gloves are not required.

#### Respiratory Protection

- None required under normal use.

#### Skin Protection

- Wear suitable working clothes. Long sleeves are recommended if arms are repeatedly rubbed against foam.

#### Environmental Exposure Controls

- No data available.

#### Additional Protection Measures

- Use near eyewash station and safety shower.

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	• Solid	Odor	• Slight hydrocarbon odor
Appearance	• No data available	Odor Threshold	• No data available
Color	• White		
General Properties			
Boiling Point	• Not measurable	Melting Point	• Not measurable
Decomposition Temperature	• No data available	pH	• Not measurable
Density	• 1 to 10 lb(s)/ft <sup>3</sup>	Water Solubility	• Low
Solvent Solubility	• No data available	Viscosity	• No data available
Explosive Properties	• No data available	Oxidizing Properties	• No data available
Decomposition Temperature	• Not measurable	Specific Gravity/Relative Density	• <1.0 (H <sub>2</sub> O=1)
Volatility			
Vapor Pressure	• Not measurable	Vapor Density	• Not measurable
Evaporation Rate	• Not measurable	VOC (Vol.)	• No data available
Volatiles (Vol.)	• No data available		
Flammability			
Flash Point	• No data available	LEL	• No data available
UEL	• No data available	Flammability (solid, gas)	• WILL BURN IN FIRE
Auto-ignition Temperature	• >800°F		
Environmental			
Octanol/Water Partition Coefficient	• Not measurable		

### 9.2. Other Information

No additional information available

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical Stability

Stable under normal conditions.

### 10.3 Possibility of Hazardous Reactions

No data available.

### 10.4 Conditions to Avoid

Prolonged exposure to temperatures in excess of 240 degrees Fahrenheit may cause some loss of volatile components. Do not expose urethane foam to open flames or any other direct or indirect high temperature ignition sources such as burning operations, welding, space heaters or naked lights.

### 10.5 Incompatible Materials

No data available.

### 10.6 Hazardous Decomposition Products

No data available.

## SECTION 11: Toxicological Information

### 11.1 Information on Toxicological Effects

No data available.

### 11.2 Potential Health Effects

#### Inhalation

- |         |  |
|---------|--|
| Acute   | <ul style="list-style-type: none"><li>• Foam dust generated from such operations as continuous grinding or buffing can create nuisance particulates, which can cause irritation to the respiratory tract or even lung infection, airway obstruction or fibrosis.</li></ul> |
| Chronic | <ul style="list-style-type: none"><li>• None known.</li></ul>  |

#### Skin

- |         |   |
|---------|---|
| Acute   | <ul style="list-style-type: none"><li>• Under normal conditions of use, no health effects are expected.</li></ul> |
| Chronic | <ul style="list-style-type: none"><li>• None known.</li></ul>   |

#### Eye

- |         |   |
|---------|---|
| Acute   | <ul style="list-style-type: none"><li>• Foam dust can cause eye irritation.</li></ul> |
| Chronic | <ul style="list-style-type: none"><li>• None known.</li></ul>                         |

#### Ingestion

- |         |   |
|---------|---|
| Acute   | <ul style="list-style-type: none"><li>• Under normal conditions of use, no health effects are expected.</li></ul> |
| Chronic | <ul style="list-style-type: none"><li>• None known.</li></ul>   |

## SECTION 12: Ecological Information

### 12.1 Toxicity

No data available

### 12.2 Persistence and Degradability

No data available

### 12.3 Bioaccumulative Potential

No data available

### 12.4 Mobility in Soil

No data available

### 12.5 Other Adverse Effects

No data available

## SECTION 13: Disposal Considerations

### 13.1 Waste Disposal Method

#### Product Waste

- Do not dump into any sewers, on the ground, or into any body of water.
- All disposal methods must be in compliance with Federal, State/Provincial, and local regulations.

#### Packaging Waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## SECTION 14: Transport Information

### U.S. DOT/IATA/IMDG

Not regulated as hazardous for shipment.

## SECTION 15: Regulatory Information


### 15.1 Regulatory Status

**CERCLA Hazardous Substances (40 CFR 302):** None reportable.

**SARA 311/312:** None reportable.

**SARA 313:** None reportable.

### 15.2 US State Regulations

 **WARNING:** This product can expose you to chemicals including Styrene, which is known to the State of California to cause cancer. For more information go to [www.P65Warning.ca.gov](http://www.P65Warning.ca.gov)

### 15.3 International Inventories\*

**United States:** All components of this product are listed on the TSCA inventory.

## SECTION 16: Other Information

### 16.1 NPCA/HMIS RATINGS

Health: 1  
Flammability: 1  
Reactivity: 0

### 16.2 EU CLP Relevant Phrases

S 24/25 Avoid contact with skin and eyes.

### 16.3 Preparation By

I.H. Department

### 16.4 Preparation Date

September 29, 2009

### 16.5 Last Revision Date

June 15, 2018 - Section 15

### 16.6 Disclaimer/Statement of Liability

#### **WARNING**

EPS FOAM IS FLAMMABLE. MODIFIED EPS LIKE MOST PLASTIC FOAMS IS FLAMMABLE. DO NOT EXPOSE EPS TO OPEN FLAMES OR OTHER DIRECT OR INDIRECT HIGH TEMPERATURE IGNITION SOURCES SUCH AS BURNING OPERATIONS, WELDING, BURNING CIGARETTES, SPACE HEATERS OR NAKED LIGHTS. WHEN BURNING, EPS WILL CONSUME OXYGEN, RELEASING GREAT HEAT AND SMOKE AND POTENTIALLY TOXIC GASES SUCH AS CARBON MONOXIDE AND CARBON DIOXIDE. DO NOT USE, INSTALL OR STORE EPS EXCEPT IN STRICT COMPLIANCE WITH BOCA, ICBO OR SBCCI CODES, AS WELL AS ANY FIRE-RELATED LAWS/ORDINANCES. FAILURE TO COMPLY WITH THESE CODES/LAWS MAY INCREASE THE RISK OF FIRE AND RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE FROM SMOKE, FLAMES OR WATER.

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