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.

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**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

<table>
<thead>
<tr>
<th>Material Description</th>
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<tbody>
<tr>
<td><strong>Physical Form</strong></td>
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<tr>
<td><strong>Appearance</strong></td>
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<tr>
<td><strong>Color</strong></td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Boiling Point</strong></td>
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<tr>
<td><strong>Decomposition Temperature</strong></td>
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<td><strong>Density</strong></td>
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<tr>
<td><strong>Solvent Solubility</strong></td>
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<tr>
<td><strong>Explosive Properties</strong></td>
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<tr>
<td><strong>Decomposition Temperature</strong></td>
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<table>
<thead>
<tr>
<th>Volatility</th>
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<tbody>
<tr>
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</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
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<td><strong>Volatiles (Vol.)</strong></td>
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<table>
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<td><strong>UEL</strong></td>
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<tr>
<td><strong>Auto-ignition Temperature</strong></td>
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<table>
<thead>
<tr>
<th>Environmental</th>
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<tbody>
<tr>
<td><strong>Octanol/Water Partition Coefficient</strong></td>
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</tr>
</tbody>
</table>

#### 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 • 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.
- Chronic • None known.

Skin
- Acute • Under normal conditions of use, no health effects are expected.
- Chronic • None known.

Eye
- Acute • Foam dust can cause eye irritation.
- Chronic • None known.

Ingestion
- Acute • Under normal conditions of use, no health effects are expected.
- Chronic • None known.

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


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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