Section 1: Identification

Product Identifier

Product Name  • Polar Pack® Foam Brick
Synonyms  • PolarPack®

Relevant identified uses of the product

Recommended use  • Keep items cold or frozen

Details of the supplier of the safety data sheet

Manufacturer  • Sonoco Protective Solutions
3930 N Ventura Dr. Suite 450
Arlington Heights, IL 60008
United States
https://www.thermosafe.com
James.Goeke@sonoco.com

Telephone (General)  • 800-323-7442

Section 2: Hazard Identification

China
Prepared to Chinese Standards GB/T 16483-2008, GB/T 17513-2013 and to GHS Rev 04

Classification of the substance or mixture

According to GHS REV 4  • Not classified

Label elements

Hazard statements  • No label element(s) required

Other hazards

• Not Applicable.
Section 3 - Composition/Information on Ingredients

Substances

• Material does not meet the criteria of a substance.

Mixtures

• Material does not meet the criteria of a mixture.

Composition Information on Ingredients

Chemical characterization:

• Pink fine-celled thermoset phenolic plastic foam with absorbed water that is encased in a sealed plastic film. Polar Pack® Foam Brick is formed to a specific shape during manufacture. It is considered an Article under section 1.3.2.1.1 of the United Nations, Global Harmonized System Rev 4 (Purple Book). This definition is included in Section 15 Regulatory Information of this SDS.

Chemical Name:

• Phenolic foam brick.

Description:

• Phenolic plastic foam with absorbed water encased in a vacuum sealed plastic film.

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

• First aid is not expected to be necessary if material is used under ordinary conditions and as recommended.

Skin

• First aid is not expected to be necessary if material is used under ordinary conditions and as recommended.

Eye

• First aid is not expected to be necessary if material is used under ordinary conditions and as recommended.

Ingestion

• First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If swallowed, rinse mouth with water (only if the person is conscious).
Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media
- Water, foam, carbon dioxide, or dry chemical.

Unsuitable Extinguishing Media
- No data available

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- Finished foam will support combustion if it is ignited by direct contact with an open flame or exposed to temperatures in the range of 600°F. If foam is placed in a microwave for an extended period, it will begin to burn. Combustion occurs at the center of the brick and due to the insulating effect of the foam, can proceed unnoticed until an appreciable heat buildup occurs.

Hazardous Combustion
- No data available.

Products

Advice for firefighters
- Firefighters should wear complete protective clothing including self-contained breathing apparatus.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions
- No special precautions expected to be necessary if material is used under ordinary conditions and as recommended. Wear appropriate personal protective equipment where contact with eutectic fill is possible.

Emergency Procedures
- No special precautions expected to be necessary if material is used under ordinary conditions and as recommended.

Environmental precautions
- No special environmental precautions necessary.

Methods and material for containment and cleaning up

Containment/Clean-up Measures
- Absorb any spilled liquid and dispose of properly.
Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Use good safety and industrial hygiene practices. NOTE: Careless handling of Flexible Polar Packs may damage the film pouch material, which may result in leakage of liquid. Before use, examine the film material for tears, punctures, etc.

Conditions for safe storage, including any incompatibilities

Storage

- Store in a cool, dry, well-ventilated place. Keep out of direct sunlight.

Section 8 - Exposure Controls/Personal Protection

Engineering Measures/Controls

- No special controls needed.

Personal Protective Equipment

Respiratory

- No respiratory protection needed.

Eye/Face

- No protective eyewear expected to be needed.

Skin/Body

- No protective clothing expected to be needed.

Environmental Exposure Controls

- Follow best practice for site management and disposal of waste.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Appearance/Description</th>
<th>Plastic film covered brick</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Solid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Pink foam, film color varies</td>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
<td></td>
<td></td>
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<tr>
<td>General Properties</td>
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</tr>
<tr>
<td>Boiling Point</td>
<td>212 °F(100°C) (Water)</td>
<td>Melting Point/Freezing Point</td>
<td>32 °F(0 °C) (Water)</td>
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<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
<td>pH</td>
<td>Not Applicable</td>
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<tr>
<td>Specific Gravity/Relative Density</td>
<td>1.0 @ 68 °F(20 °C) (Water)</td>
<td>Water Solubility</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Volatility</td>
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<td></td>
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</tr>
<tr>
<td>Vapor Pressure</td>
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<td>Vapor Density</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not applicable.</td>
<td>Volatiles (Wt.)</td>
<td>Not applicable.</td>
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<tr>
<td>Volatiles (Vol.)</td>
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</table>
### Flammability

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
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<tr>
<td>LEL</td>
<td>No data available</td>
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<tr>
<td>UEL</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition</td>
<td>600 °F (315.5°C)</td>
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<tr>
<td>Flammability (solid, gas)</td>
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</tbody>
</table>

### Environmental

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Octanol/Water Partition coefficient</td>
<td>No data available</td>
</tr>
</tbody>
</table>

### Section 10: Stability and Reactivity

**Reactivity**
- No dangerous reaction known under conditions of normal use.

**Chemical stability**
- Stable under normal temperatures and pressures.

**Possibility of hazardous reactions**
- Hazardous polymerization will not occur.

**Conditions to avoid**
- No data available

**Incompatible materials**
- No data available

**Hazardous decomposition products**
- No data available

### Section 11 - Toxicological Information

**Information on toxicological effects**

**Potential Health Effects**

**Inhalation**
- **Acute (Immediate)**: Under normal conditions of use, no health effects are expected.
- **Chronic (Delayed)**: Under normal conditions of use, no health effects are expected.

**Skin**
- **Acute (Immediate)**: Under normal conditions of use, no health effects are expected.
- **Chronic (Delayed)**: Under normal conditions of use, no health effects are expected.
Eye

Acute (Immediate) Under normal conditions of use, no health effects are expected.
Chronic (Delayed) Under normal conditions of use, no health effects are expected.

Ingestion

Acute (Immediate) Under normal conditions of use, no health effects are expected.
Chronic (Delayed) Under normal conditions of use, no health effects are expected.

Carcinogenic Effects
Polar Pack® Foam Brick is not listed by either NTP or IARC.

Section 12 - Ecological Information

Aquatic toxicity: Not available.
Persistence and degradability: Not available.
Behavior in environmental systems: Not available
Bioaccumulative potential: Not available.
Mobility in soil: Not available.
Additional ecological information: None.
General notes: None.
Other adverse effects: None known.

Section 13 - Disposal Considerations

Waste treatment methods

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

Packaging waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Section 14 - Transport Information

DOT Non-Bulk: Not regulated
DOT Bulk: Not regulated
IMDG: Not regulated
ICAO/IATA: Not regulated

Special precautions for user: None

Transport in bulk according to Annex II Of MARPOL 73/78 and the IBC Code 4: Not applicable.

Section 15 - Regulatory Information

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 the hazard determination provisions of the standard), and does not pose a physical hazard or health risk to employees.
Section 16 - Other Information

Key/Legend:
ACGIH: American Conference of Governmental Industrial Hygienists
ACGIH TLV: ACGIH Threshold Limit Values
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstract Service
CERCLA: Comprehensive Environmental Response, Compensation and Liability Act
CFS: Code of Federal Regulations
CNS: Central Nervous System
CPR: Controlled Product Regulations
DOT: US Department of Transportation
DSL: Domestic Substances List
EINECS: European Inventory of Existing Commercial Chemical Substances
HMIS: Hazardous Material Identification System
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IDL: Ingredient Disclosure List
IMDG: International Maritime Code for Dangerous Goods
NFPA: National Fire Protection Association
NIOSH: National Institute of Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
OSHA PEL: OSHA Permissible Exposure Limits
PBT: Persistent, Bioaccumulative and Toxic
RCRA: Resource Conservation and Recovery Act
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
TSCA: Toxic Substances Control Act
TWA: Time Weighted Average
vPvB: Very Persistent and Very Bioaccumulative
GB/T: Chinese National Standards.

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