

EPS Safety Data Sheet

1 Name of Product and Company

Product

Expanded Polystyrene (EPS) rigid insulation board, including Graphite EPS (GPS) material of various densities.

Chemical Name

Polystyrene Foam, (C₈H₈)_n, with or without polyester or polypropylene film facers.

Manufacturer Information

Alleguard
10 Cadillac Drive, Suite 100
Brentwood, TN 37027

(615) 510-2060
www.alleguard.com

Recommended Use

Construction material, insulation, lightweight structural fill, geofoam, packaging, and other miscellaneous applications.

2 Hazards Identification

Hazard Classification None

Label Elements None

Signal Word None

Hazard Statement(s) None

Other Hazards Low toxicity under normal conditions of handling and use.
May form combustible dust concentrations in air if converted to small particles during handling or fabrication.

3 Composition/Information on Ingredients

Common Name	Chemical Name	CAS Number	Weight %
Polystyrene Foam	Polystyrene Polymer	9003-53-6	95-100%
Pentane*s (Isomers)	n-pentane	109-66-0	≤2%
Flame Retardant	TS	TS	TS

*Flammable blowing agent that off-gases from product. Most of the pentane off-gases prior to shipment.

4 First Aid Measures**Eye Contact**

Dust or particles may cause mechanical eye irritation and/or injury. Flush eyes thoroughly with water for at least 15 minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Inhalation

Dust from mechanical fabrication may cause upper respiratory irritation. Fumes from hot wire cutting can also cause upper respiratory irritation. Move person to fresh air and keep comfortable for breathing. Loosen tight clothing such as collar, tie, belt or waistband to facilitate breathing. Obtain medical attention if symptoms persist.

Skin Contact

No significant signs or symptoms indicative of any adverse health hazard are expected to occur because of absorption. May cause slight skin irritation from abrasion in a few individuals. Wash with mild soap and running water. Remove and launder contaminated clothing before reuse. If irritation develops, seek medical attention.

Ingestion

Ingestion of this material is unlikely. It is biologically inert and ingestion of small quantities of this material under normal circumstances would not cause harmful effects. If it does occur, do not induce vomiting; seek medical attention.

5 Fire Fighting Measures

Flash Point 698°F (370°C)

Auto Ignition 850°F (454°C)

Extinguishing Media Water fog, foam, carbon dioxide, dry chemicals

Special Firefighting Protective Equipment Use approved self-contained breathing apparatus with full face mask and personal protective clothing (turnout gear).

Unusual Fire and Explosion Hazards Burning product may produce dense black smoke consisting of carbon (soot), carbon monoxide, carbon dioxide and water. Dust generated by fabrication, i.e., sanding, sawing, etc. will increase fire hazard and should be handled accordingly.

6 Accidental Release Measures

Land Spill Scoop up material and put into suitable container for recycling or disposal as a non-hazardous waste in an appropriate recycling or disposal facility.

Water Spill This material will float and disperse with wind and current. Contain the material with brooms, pick up or remove with a vacuum truck.

Air Release This material will settle out of the air. If concentrated on land, it can then be scooped up for recycling or disposal as a non-hazardous waste.

7 Handling and Storage

Storage Temperature Ambient (below 170°F)

General Storage

Store in well ventilated area. Assure storage areas and shipping containers are adequately ventilated. Avoid direct exposure to very high heat, open flame, sparks, or other sources of ignition. Do not enter confined areas unless adequately ventilated. The flammable vapors of pentane (blowing agent) are heavier than air and may accumulate in low places. "No Smoking – No Matches – No Lighters – No Welding" rules should be enforced.

8 Exposure Controls/Personal Protection**Exposure Guidelines****Expanded Polystyrene**

OSHA PEL Particulates (not otherwise classified) 15 mg/m³, 8 Hr. TWA, total dust 5 mg/m³, 8 Hr. TWA, respirable dust.

ACGIH TLV None Established

Pentanes

OSHA PEL 1,000 ppm

CGIH TLV 600 ppm

Personal Protection

Eye/Face Protection If there is a potential for exposure to particles which could cause eye discomfort or for fabrication operations, safety glasses with side shields are recommended.

Skin Protection No precautions other than clean body-covering clothing should be needed.

Hand Protection Use gloves to protect from mechanical injury. Selection of gloves will depend on the task.

Respiratory Protection Respiratory protection is not normally required. When respiratory protection is required for certain operations, including but not limited to saw, router or hot-wire cutting, use an approved air-purifying respirator. In dusty or misty atmospheres, use an approved particulate respirator.

Ingestion No precautions necessary due to the physical properties of the material.

Ventilation Use ventilation adequate to maintain safe levels if overheating or dust occurs during processing. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

Special Precautions or Other Comments Follow procedures specified in the NFPA Codes and Standards for handling combustible dust. Maintain good housekeeping to avoid dust buildup.

9 Physical and Chemical Properties

Appearance and Color	White or gray rigid cellular foam blocks, boards, sheets and shapes.
Melting Point	Above 175°F (79°C)
Solubility in Water	Insoluble

10 Stability and Reactivity

Stability	Stable under normal conditions.
Reactivity	Reactive with oxidizing agents.
Incompatible Materials to Avoid	Organic solvents, oil products, strong oxidizing agents, sparks, open flames, strong acids or bases.
Hazardous Decompositions Products	Does not decompose under normal usage.
Hazardous Polymerization	Will not occur.

11 Toxicological Information

Ingestion	Biologically inert. Extremely unlikely route of entry.
Eye Contact	Small particles may cause mechanical irritation or injury to the surface of the eye. Noticeable discomfort, redness, and tearing can occur.
Skin Contact	May cause skin irritation or abrasion.
Skin Absorption	None.
Inhalation	Nuisance dust may cause mechanical irritation with possible difficulty breathing, sneezing, and coughing (only when material is cut).
Effects of Chronic Exposure	No significant health hazard is expected to result under conditions of normal occupational use of this material.
Aggravation of Pre-Existing Conditions	No adverse effects expected.
Carcinogenicity	Styrene monomer ACGIH: A4 – Not classified as a Human Carcinogen IARC: 2B – Possibly Carcinogenic to Humans (Vol. 60, 1994)

12 Ecological Information

Non-biodegradable, insoluble in water, low potential for bio-accumulation. Not expected to harm ecosystems through its applied use.

13 Waste Disposal Considerations

Reuse or dispose via sanitary landfill or adequate incinerator according to federal, state, and local regulations. Do not discharge into waterways or sewer systems. Expanded polystyrene is recyclable. Contact your local waste management service for recycling methods or visit the following:

- EPS Industry Alliance: www.epsindustry.org
- Earth911: www.earth911.com
- GoFoam: www.gofoam.org
- Home for Foam: www.homeforfoam.com/foam-101/foam-recycling-centers

Some of our manufacturing locations can accept clean, dry, tape- & label-free EPS foam from our customers and the public. The recycled EPS gets reused in our manufacturing process. Please contact us for full recycling rules.

14 Transportation Information

For domestic transportation purposes, this product is not regulated as a hazardous material by Transport Canada or the US Department of Transportation (DOT) under Title 49 of the Code of Federal Regulations.

15 Regulatory Information

Toxic Substance Control Act (TSCA) All ingredients are listed on the TSCA inventory.

Section 313 Supplier Notification This product contains no known toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

OSHA Hazard Communication Standard This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910. 1200.

16 Other Information

California Proposition 65 This product contains a chemical(s) known to the state of California to cause cancer and birth defects or other reproductive harm.

The information provided in this Safety Data Sheet (SDS) is given in good faith but with no expressed or implied warranty. The manufacturer is not responsible for personal injury or property damage that may arise from use of this product. Customers or end users assume all risks associated with the use of this material.