

SAFETY DATA SHEET

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name EPS Molded Foam Products

Other means of identification

Synonyms

Recommended use of the chemical and restrictions on use

Recommended use Thermal barrier products for storage, shipping and/or insulation

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name Lifoam Industries

Supplier Address 235 Schilling Circle, Suite 111
Hunt Valley
MD
21031
US

Supplier Phone Number Phone:800-638-1471

Supplier Email info@jardenhomebrands.com

Emergency telephone number CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word	None	
Hazard Statements	May cause slight skin irritation Dust may cause eye irritation Dust may cause respiratory irritation	
Appearance: white molded beads	Physical State: solid	Odor: slight hydrocarbon

Precautionary Statements - Prevention

Keep away from open flames and hot surfaces

Precautionary Statements - Response

See 4. First Aid Measures

Precautionary Statements - Storage

None

Precautionary Statements - Disposal

Dispose of in accordance with local/regional/national/international regulations, as applicable

Hazards not otherwise classified (HNOC)

Not Applicable

Other Information

No information available

Interactions with Other Chemicals

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Polystyrene	9003-53-6	>92
Water	7732-18-5	0-3 (by volume)
Pentane	109-66-0	<1

4. FIRST AID MEASURES**First aid measures****Eye Contact**

IF DUST IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention.

Skin Contact

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Inhalation

IF DUST IS INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a poison center or doctor/physician if you feel unwell.

Ingestion

Not likely to cause serious injury, if ingested

Most important symptoms and effects, both acute and delayed

Most important symptoms and Effects No information available

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat symptomatically

5. FIRE-FIGHTING MEASURES**General Fire Hazards**

See section 9 for Flammability Properties

Not resistant to oxidizing agents, dissolves in organic solvents

Hazardous Combustion Products

Styrene, oxides of carbon, and other toxic gases at elevated temperatures

Extinguishing Media

Dry chemical, foam, carbon dioxide, or water fog or spray

Unsuitable Extinguishing Media

Not known

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Recovery and Neutralization	None needed
Materials and Methods for Clean-Up	For small spills: Spilled product may create a dangerous slipping hazard. Eliminate all sources of ignition. For large spills: Prevent entry into sewers or drains.
Personal Precautions	Avoid contact with eyes. Spilled product may produce slippery conditions. Use care when attempting to recover spilled material.
Emergency Measures	Isolate area. Keep unnecessary personnel away.
Personal Precautions and Protective Equipment	None needed.
Environmental Precautions	None
Prevention of Secondary Hazards	None

7. HANDLING AND STORAGE

Precautions for safe handling

Handling	Keep this product from hot surfaces or open flames. Small amounts of fines or dust contained in granular resins may accumulate in material handling systems. If permitted to accumulate, these fines or dust can, under certain conditions, pose an explosion hazard. Every effort should be made to prevent suspension, concentration or accumulation of fines or dusts in, or around, material handling systems. Keep away from incompatibles such as oxidizing agents and organic solvents.
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Conditions for safe storage, including any incompatibilities

Storage	Have appropriate extinguishing capability in storage area(s) (e.g. sprinkler system, portable fire extinguishers, and flammable gas detectors).
Incompatible Products	Not resistant to oxidizing agents, dissolves in organic solvents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Component Exposure Limits

Pentane (109-66-0) ACGIH: 600 ppm TWA (listed under Pentane, all isomers)
 OSHA: 600 ppm TWA; 1800 mg/m3 TWA
 750 ppm STEL; 2250 mg/m3 STEL
 NIOSH: 120 ppm TWA; 350 mg/m3 TWA
 610 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)

Engineering Measures None

Personal Protective Equipment: Respiratory
 None needed under normal handling conditions.

Personal Protective Equipment: Hands
 None needed under normal handling conditions.

Personal Protective Equipment: Eyes
 None needed under normal handling conditions.

Personal Protective Equipment: Skin and Body
 Use appropriate work clothing for the job task.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Appearance:	White molded beads	Odor:	slight hydrocarbon
Physical State:	Solid	pH:	NA
Vapor Pressure:	NA	Vapor Density:	NA
Boiling Point:	NA	Melting Point:	NA
Solubility (H2O)	Insoluble	Specific Gravity:	<1
Softening Point:	140 to 214°F	Evaporation Rate:	None
VOC:	<1%	Octanol/H2O coeff:	ND
Flash Point:	600-650°F	Flash Point Method	ND
Upper Flammability Limit	NA	Lower Flammability Limit:	NA
Burning Rate:	ND	Auto Ignition:	ND

10. STABILITY AND REACTIVITY

Chemical stability
 Stable under recommended storage conditions

Possibility of Hazardous Reactions
 None under normal processing.

Conditions to avoid
 Keep this product from heat, ignition sources, and incompatible materials. Strong oxidizers can increase fire and explosion hazard. Powders or dusts may form an explosive mixture with air.

Incompatible materials

Not resistant to oxidizing agents, dissolves in organic solvents.

Hazardous Decomposition Products

Styrene, oxides of carbon, and other toxic gases at elevated temperatures.

11. TOXICOLOGICAL INFORMATION**Acute Toxicity****A. General Product Information**

This product has not been tested. Exposure to high levels of dusts may be irritating to the eyes. Skin/eye contact with molten or heated material may cause burns. Vapors/heated fumes may be irritating to the respiratory system.

B. Component Analysis - LD50/LC50

Pentane (109-66-0)

Inhalation LC50 Rat 364 g/m³ 4 h; Dermal LD50 Rabbit 3000 mg/kg; Oral LD50 Rat >2000 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

None anticipated under normal product handling conditions

Potential Health Effects: Eye Critical Damage/Stimulativeness

None anticipated under normal product handling conditions.

Potential Health Effects: Ingestion

Not considered a likely route of exposure under normal product handling conditions.

Potential Health Effects: Inhalation

Dust from the product may cause irritation to respiratory system. Overexposure may be harmful

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have skin sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have mutagenic effects.

Carcinogenicity**A. General Product Information**

This product is not reported to have carcinogenic effects.

B. Component Carcinogenicity

Polystyrene (9003-53-6)

IARC: Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))

Reproductive Toxicity

This product is not reported to have reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

Dust may cause respiratory irritation.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any repeat exposure target organ toxicity effects.

Aspiration Respiratory Organs Hazard

This product is not reported to have any aspiration hazard effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity

A. General Product Information

The information below is based on knowledge of the components and the Ecotoxicity of similar products. Sewer/waterway obstruction: marine life may ingest beads, which may obstruct their digestive tract. Product is expected to be non-toxic, but small particles may have physical effects on aquatic and terrestrial organisms.

B. Component Analysis - Ecotoxicity - Aquatic Toxicity

Pentane (109-66-0)

Test & Species	Conditions
96 hr LC50 Oncorhynchus mykiss	9.87 mg/L
96 hr LC50 Pimephales promelas	11.59 mg/L
96 hr LC50 Lepomis macrochirus	9.74 mg/L

Persistence and Degradability

This product has not been tested. Expected to be inherently non-biodegradable. Integrated environmental half-life expected to be ≥ 100 days. Do not allow product to enter sewer or waterways.

Bioaccumulation

This product has not been tested. It is considered to have little potential for bioaccumulation or food chain concentration.

Mobility in Soil

No information available for this product

13. DISPOSAL CONSIDERATIONS

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations

Disposal of Contaminated Containers or Packaging

Dispose of contents/containers in accordance with local/regional/national regulations, if applicable

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated

15. REGULATORY INFORMATION

Component Analysis

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS#	CA	MA	MN	NJ	PA	RI
Pentane	109-66-0	Yes	Yes	Yes	Yes	Yes	No

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS#	TSCA	CAN	EEC
Pentane	109-66-0	Yes	DSL	No
Polystyrene	9003-53-6	Yes	DSL	EINECS

16. OTHER INFORMATION

Key/Legend

CAN - Canada; CAS - Chemical Abstract Service; EPA - Environmental Protection Agency; TSCA - Toxic Substance Control Act; ACGIH - American Conference of Governmental Industrial Hygienists; IARC - International Agency for Research on Cancer; NIOSH - National Institute for Occupational Safety and Health; NTP - National Toxicology Program; OSHA - Occupational Safety and Health Administration; NJTSR - New Jersey Trade Secret Registry.

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet