

Safety Data Sheet

Material Name: EPS Molded Foam Products – Consumer & Protective Packaging

***** Section 1 – Product and Company Identification *****

Manufacturer Information

Lifoam Industries Phone: 800-638-1471
 235 Schilling Circle
 Hunt Valley, MD 21031 Emergency# 410-889-1023

Recommended Use

Thermal barrier products for storage, shipping and/or insulation.

***** Section 2 – Hazard Identification *****

GHS Classification:

Not Classified

GHS LABEL ELEMENTS

Symbol(s)

None

Signal Word

None

Hazard Statement

May cause slight skin irritation
 Dust may cause eye irritation
 Dust May cause respiratory irritation

Precautionary Statements

Prevention

Keep away from open flames and hot surfaces.

Response

IF DUST IS 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.
 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 fell unwell.
 In case of fire. Use dry chemical, foam, carbon dioxide, or water fog or spray.

Disposal

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

***** Section 3 – Composition/Information on Ingredients *****

CAS#	Component	Percent
9003-53-6	Polystyrene	>92
7732-18-5	Water	0-3 (by volume)
109-66-0	Pentane	<1



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*** Section 4 – First Aid Measures ***

First Aid: Eyes

Remove contact lenses, if it can be done safely. Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention if symptoms develop or persist.

First Aid: Skin

For skin contact, wash affected area with soap and water. Seek medical attention if symptoms develop or persist.

First Aid: Ingestion

Not likely to cause serious injury, if ingested.

First Aid: Inhalation

Move affected individual to non-contaminated air. Loosen tight clothing such as a collar, tie, belt or waistband to facilitate breathing. Seek immediate medical attention if the individual is not breathing, is unconscious or if any other symptoms persist.

*** Section 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

None

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

*** Section 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.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

None needed.

Environmental Precautions

None

Prevention of Secondary Hazards

None



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*** Section 7 – Handling and Storage ***

Handling Procedures

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.

Storage Procedures

Have appropriate extinguishing capability in storage area(s) (e.g. sprinkler system, portable fire extinguishers, and flammable gas detectors).

Incompatibilities

Not resistant to oxidizing agents, dissolves in organic solvents.

*** Section 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.



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***** Section 9 – Physical & 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: 60 to 101°C (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 (LFL): NA	Lower Flammability Limit (LFL): NA
Burning Rate: ND	Auto Ignition: ND

***** Section 10 – Chemical Stability & Reactivity Information *****

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

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 Products

Not resistant to oxidizing agents, dissolves in organic solvents.

Hazardous Decomposition Products

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

***** Section 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 this product may cause irritation to the respiratory system. Overexposure may be harmful.

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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.

*** Section 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/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.

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***** Section 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 in accordance with local/regional/national/international regulations, as applicable.

***** Section 14 – Transportation Information *****

DOT Information

Shipping Name: Not Regulated

IATA Information

Shipping Name: Not Regulated

ICAO Information

Shipping Name: Not Regulated

IMDG Information

Shipping Name: Not Regulated

***** Section 15 – Regulatory Information *****

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
Polystyrene	9003-53-6	Yes	DSL	No
Pentane	109-66-0	Yes	DSL	EINECS



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***** Section 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.

Literature References

None

Other Information

The information contained herein is provided as a general reference only. Lifoam believes the data set forth herein to be accurate and given in good faith. Lifoam makes no guarantee or warranty and does not assume any liability with respect to the accuracy or completion of such information or of the product results in any specific instance, and hereby expressly disclaims any implied warranties of merchantability or fitness for a particular purpose, or any other warranties or representations, whatsoever, expressed or implied.

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