

## Material Safety Data Sheet

**Product: Brick 12(4872), Brick 24(4873)**

**MSDS Date:** 12/8/05

**Product Name:** 4872 - Brick 12(15 oz.), 4873 - Brick 24(30 oz.)

**Manufacturer:** Lifoam Industries, Inc.

### 1. Product and Company Description

Lifoam Industries, Inc.  
2 Fifth Street  
Peabody, MA 01960

**For Product Information/Emergency:**  
978-278-0008

**Chemical Synonym/Formula:**  
N/A

### 2. Hazards Identification

#### Emergency Overview

**Appearance/Odor:** Phenolic foam and water sealed in polyethylene bag with no odor.

#### Potential Health Effects:

The following health effects are for exposure to unsealed and dry foam dusts. No health effects are anticipated if product is undamaged and used according to manufacturer instruction.

**Acute Eye:**

Dusts may cause eye irritation.

**Acute Skin:**

Prolonged skin exposure to dusts may cause dermatitis.

**Acute Inhalation:**

Inhaled dusts may cause irritation to the respiratory tract.

**Acute ingestion:**

Not considered a route of exposure under anticipated use conditions.

**Chronic Exposure:**

Not determined

**Aggravation of Pre-existing Conditions:**

Inhalation of high concentrations of dust over prolonged periods of time may aggravate asthmatic conditions.

## Material Safety Data Sheet

**Product: Brick 12 (4872), Brick 24 (4873)**

### 3. Chemical Composition

Product is composed of varied sizes of phenolic polymer foam and water sealed in a polyethylene bag.

### 4. First Aid Measures

#### First Aid Measures for Accidental:

**Eye Exposure:**

Immediately flush eyes with copious amounts of water. If irritation develops, SEEK MEDICAL ATTENTION.

**Skin Exposure:**

If irritation develops, seek medical attention.

**Inhalation:**

Remove to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

**Ingestion:**

Give large quantities of water. Never give anything by mouth to an unconscious person. Seek medical attention.

### 5. Fire Fighting Measures

#### Fire Hazard Data:

**Autoignition:** N/A

**Flash Point:** N/A

**Flammability Limits (vol/vol%):**

**Lower:**  
N/A

**Upper:**  
N/A

**Extinguishing Media:**

Use extinguishing media suitable for surrounding fire

**Special Fire Fighting Procedures:**

None

**Unusual Fire and Explosion Hazards:**

Finished foam is not flammable in that it does not burn with an open flame. It 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 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 build up occurs.

## Material Safety Data Sheet

**Product: Brick 12 (4872), Brick 24 (4873)**

**6. Accidental Release Measures**

**Cleanup and Disposal of Spill:**

Pick up and place in a suitable container for reclamation or disposal. Do not discharge into drains or sewers. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

**7. Handling and Storage**

**Handling/Storage:**

Store in a cool, dry, ventilated area.

**8. Exposure Controls / Personal Protection**

**Exposure Guidelines:**

Component	ACGIH	NIOSH	OSHA-PELs
Phenolic Foam	ND	ND	ND
Water	N/A	N/A	N/A
Polyethylene	N/A	N/A	N/A

**Engineering Controls:**

General mechanical ventilation is adequate for normal use. Local exhaust is recommended for confined areas.

**Respiratory Protection:**

None required under anticipated product use conditions.

**Eye / Face Protection:**

None required under anticipated product use conditions.

**Skin Protection:**

None required under anticipated product use conditions.

**9. Physical and Chemical Properties**

**Physical Appearance:** Phenolic foam and water sealed in polyethylene bag with no odor.

- Odor:** None
- pH:** N/A
- Specific Gravity:** ND
- Water Solubility:** Insoluble
- Melting Point:** N/A
- Freezing Point:** N/A
- Boiling Point:** N/A
- Vapor Pressure:** N/A
- Density:** N/A
- Percent Volatiles by Volume:** N/A

## Material Safety Data Sheet

**Product: Brick 12 (4872), Brick 24 (4873)**

Evaporation Rate: ND  
Viscosity: ND  
Density: ND

### 10. Stability and Reactivity

**Chemical Stability:**  
Stable

**Conditions to Avoid:**  
Extreme heat and flame.

**Materials / Chemicals to Be Avoided:**  
Acid condition on foam is corrosive

**Hazardous Decomposition Products:**  
None

**Hazardous Polymerization:**  
Will not occur.

### 11. Toxicological Information

**Acute Effects**  
LD50 Oral: No data  
LD50 Dermal: No data

**Chronic Effects**  
Carcinogenicity: No data  
Mutagenicity: No data  
Reproductive Effects: No Data  
Developmental Effects: No Data

### 12. Ecological Information

**Environmental Fate:**  
No information found.

**Environmental Toxicity:**  
No information found.

### 13. Disposal Considerations

**Waste Disposal Method:**  
Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**Material Safety Data Sheet**

**Product: Brick 12 (4872), Brick 24 (4873)**

**14. Transportation Information**

US Department of Transportation Shipping Name:

US Department of Transportation	Proper Shipping Name	Not Regulated
	Hazard Class	Not Regulated
	ID Number	Not Regulated
	Packaging Group	Not Regulated

**15. Regulatory Information**

**Federal Regulations:**

**SARA Title III Hazard Classes:**

Fire Hazard: No  
 Reactive Hazard: No  
 Release of Pressure: No  
 Acute Health Hazard: No  
 Chronic Health Hazard: No

**TSCA**

All components of this product are on the TSCA inventory or are exempt from TSCA Inventory requirements

**Other Regulations:**

None

**16. Other Information**

**National Paint & Coating Hazardous Materials Identification System – HMIS(R):**

Health Hazard: 0  
 Flammability: 0  
 Reactivity: 0

**Key Legend Information:**

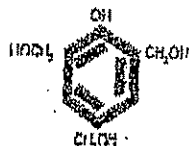
N/A – Not Applicable  
 ND – Not Determined  
 ACGIH – American Conference of Governmental Industrial Hygienists  
 OSHA – Occupational Safety and Health Administration

TLV – Threshold Limit Value  
 PEL – Permissible Exposure Limit  
 TWA – Time Weighted Average  
 STEL – Short Term Exposure Limit  
 NTP – National Toxicology Program  
 IARC – International Agency for Research on Cancer

## Material Safety Data Sheet

**Product: Brick 12 (4872), Brick 24 (4873)g**

The information contained herein is based on the data available to us and is believed to be correct. However Lifoam Industries, Inc. makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.



## American Foam Technologies

HC 37, Box 317 H, Lewisburg, WV 24901  
 PHONE: (304) 497-3000 FAX: (304) 497-3001

# MATERIAL SAFETY DATA SHEET

## FREEZER PAC REFRIGERATION FOAM

### SECTION I: PRODUCT IDENTIFICATION & COMPANY IDENTIFICATION

PRODUCT NAME: FREEZER PAC REFRIGERATION FOAM

CHEMICAL NAME: PHENOLIC FOAM OPEN CELL

#### COMPANY NAME:

American Foam Technologies, Inc.

HC 37 Box 317H

Lewisburg, WV 24901

Main Telephone: 304-497-3000

Chemtree 24 Hour Emergency Phone Number: 800-424-9300

### SECTION II: HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT % HAZARD DATA CURED PHENOLIC POLYMER

### SECTION III: PHYSICAL DATA

- BOILING POINT (1") N/A
- SPECIFIC GRAVITY (WATER =1): N/A
- VAPOR PRESSURE (mm Hg): N/A
- MELTING POINT: N/A
- SOLUBILITY IN WATER: N/A
- VAPOR DENSITY: N/A
- APPEARANCE AND ODOR: FINE-CELLED (MATRIX) PHENOLIC. SLIGHT PUNGENT ODOR.

### SECTION IIII: FIRE AND EXPLOSION DATA

- FLASH POINT N/A
- FLAMMABLE LIMITS : N/A
- (TEST METHOD) EXTINGUISHING MEDIA : WATER

## Freezer Pac Refrigeration Foam

- SPECIAL FIRE FIGHTING PROCEDURES: AVOID BREATHING SMOKE. UTILIZE FULL PROTECTIVE EQUIPMENT, SELF-CONTAINED BREATHING APPARATUS.
- UNUSUAL FIRE/EXPLOSION HAZARDS: SEE SECTION IX, SPECIAL PRECAUTIONS\*\*

## SECTION V: HEALTH HAZARD INFORMATION

## FIRST AID:

- EYES: FLUSH WITH WATER FOR APPROXIMATELY 15 MINUTES IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION
- INHALATION: MOVE TO FRESH AIR IF PERSON IS UNCONSCIOUS

## EFFECTS OF OVEREXPOSURE:

- CONSTANT OVEREXPOSURE TO DUST COULD IRRITATE ASTHMATIC CONDITION. CONSTANT EXPOSURE MAY CAUSE DERMATITIS.
- THRESHOLD LIMIT VALUE (TLV): N/A CAS: 50-00-00 FORMALDEHYDE TLV .75 ppm
- TOXICITY DATA: N/A

## SECTION VI: REACTIVITY DATA

- STABILITY: UNSTABLE      STABLE X
- CONDITIONS TO AVOID: HIGH HEAT SOURCES FLAMES
- INCOMPATIBILITY (MATERIALS TO AVOID): CONTACT WITH METAL SURFACES IN THE PRESENCE OF MOISTURE. ACID CONDITION OF FOAM IS CORROSIVE.
- HAZARDOUS DECOMPOSITION PRODUCTS: N/A
- HAZARDOUS MAY OCCUR:      CONDITIONS TO AVOID: N/A POLYMERIZATION WILL NOT OCCUR: X

## SECTION VII: SOIL OR LEAK PROCEDURES

- STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: N/A
- WASTE DISPOSAL METHOD: LANDFILL OR ANY OTHER APPROVED METHOD FOR DISPOSAL OF SOLID WASTE IN COMPLIANCE WITH LOCAL, STATE & FEDERAL REGULATIONS.

## SECTION VIII: SPECIAL PROTECTION INFORMATION

- VENTILATION REQUIREMENTS: LOCAL

SPECIFIC PERSONAL PROTECTION EQUIPMENT:



Freezer Pac Refrigeration Foam

- 1 RESPIRATORY - DUST MASK
- 2 EYE - SAFETY GLASSES
- 3 GLOVES - STANDARD WORK GLOVES
- 4 OTHER CLOTHING & EQUIPMENT: NONE REQUIRED
- 5 USE IN WELL VENTILATED AREA

SECTION IX: SPECIAL PRECAUTIONS

- 1 PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: NORMAL STORAGE OF COMBUSTIBLE MATERIALS.
- 2 FINISHED FOAM IS NOT FLAMMABLE; IN THAT IT DOES NOT BURN WITH AN OPEN FLAME; IT 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 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 BUILD-UP OCCURS.

REV: 5/9/05 LRB