

MATERIAL SAFETY DATA SHEET

I. PRODUCT INFORMATION

Manufacturer: Foamex International, Inc. 1000 Columbia Avenue Linwood, PA 19061	Telephone Number: 610-859-3138 Emergency Phone Number: 610-859-3000 Date Prepared: March 2, 2004	
--	---	--

Chemical Family: ***Polyurethane Foam***

Product Category: All polyether and polyester foam products

HMIS	
Health:	0
Flammability:	1
Reactivity:	0

II. HAZARDOUS INGREDIENTS

	<u>CAS #</u>	<u>% by Weight</u>	<u>OSHA PEL/ACGIH TLV</u>
Polyurethane Foam	9009-54-5	100%	None Established

Foamex polyurethane foam is a fully cross-linked reaction product of polyhydroxy polyol, isocyanates, catalysts, surfactants, colorants and water. Additional additives may be present, depending on the product, such as fire retardants, germicides and antistatic agents.

This product is not hazardous according to the criteria established in the OSHA Hazard Communication Standard.

III. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	Not Available	Density:	0.5- 40 lbs _m /ft ³
Vapor Pressure (mm Hg):	Not Available	Melting Point:	350 - 375°F
Vapor Density:	Not Available	Evaporation Rate:	Not Available

Solubility in Water: Insoluble

Appearance and Odor: Uniform cellular solid structure of varying colors with slight characteristic odor.

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Decomposition products flash at >500°F	LEL: None
Flammable Limits:	Not Available	UEL: None
Classification:	Combustible Solid	
NFPA Sprinkler Classification:	Extra Hazard	
Extinguishing Media:	Dry Chemical; Water; Carbon Dioxide	
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus in enclosed areas.	
Unusual Fire & Explosion Hazards:	If ignited, foam can produce rapid flame spread, intense heat, and dense black smoke and toxic gases. Material can melt into a burning liquid that can drip and flow.	
	Accumulated polyurethane dust can be readily ignited and presents a fire risk. High concentrations of dust in the air can explode if exposed to a flame, spark or other ignition sources.	



V. REACTIVITY DATA

Stability:	Stable
Conditions To Avoid:	High temperature, open flames; strong oxidizers (i.e. chlorates, bromates, nitrates and hypochlorites) can cause discoloration to foam.
Incompatibility:	Strong oxidizing acids and bases - will degrade product.
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, oxides of nitrogen, free isocyanate, acetaldehyde, acrylonitrile, polymer fragments, and hydrogen cyanide. Fire retardant foams may generate emissions of hydrogen chloride, hydrogen bromide, hydrogen fluoride or phosphoric acid depending on the fire retardant additive.
Hazardous Polymerization:	Will not occur

VI. HEALTH HAZARD DATA

Routes of Entry:	Inhalation - Foam dust
Health Hazards:	Coarse dust can cause mechanical irritation of the upper respiratory tract when concentrations are above the applicable occupational exposure limit. Airborne dust is evaluated as a nuisance dust. If ignited, foam may decompose and emit toxic gases and respiratory irritants. <i>Irritating Vapors</i> Irritating vapors (decomposition products) may be produced if product is exposed to high temperatures above 350°F Eye - Foam dust Coarse dust can cause mechanical irritation to the eyes. If exposed, avoid rubbing eyes. <i>Irritating Vapors</i> Irritating vapors (decomposition products) may be produced if product is exposed to high temperatures above 350°F
Carcinogenicity:	NTP: No IARC Cancer Review: No OSHA Regulated: No IARC: No
Medical Conditions Aggravated by Exposure:	None Known
Emergency First Aid Procedures:	Inhalation: Remove to fresh air, contact physician if respiratory discomfort persists. Eyes: Flush eyes thoroughly with water for 15 minutes. Skin: None necessary Ingestion: None necessary



VII. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case

Material is Released or Spilled: No special response required ---pick up, vacuum or sweep up.

Waste Disposal Method: Federal, state and local authorities should be contacted before attempting any form of disposal.

Transportation Information: Not currently regulated by DOT
Suggested shipping name – Polyurethane Foam

Federal Regulations:

TSCA:	All components listed
OSHA:	Defined as an article unless it undergoes further processing
CERCLA:	Not Reportable
SARA Title III:	311/312 Hazard Categories: None 313 Reportable Ingredients: None
Clean Air Act:	No ozone depleting emissions

Safe Handling and Storage: Warehousing of bun stock, sheets, rolls and fabricated items should be stored under a fusible sprinkler system with a minimum of six feet clearance between stacks of foam and the sprinkler heads.
Do not store foam near any ignition sources such as exposed electrical or gas heating elements, open flames and exposed lights. Do not smoke in foam storage areas.
Do not allow foam scrap and cuttings to accumulate and maintain clear aisles with adequate access to all storage areas and exits.

Other Precautions: Notify local fire companies of presence of large quantities of foam.

VIII. CONTROL MEASURES

Ventilation: Local exhaust ventilation is recommended for those processing procedures that may generate foam dust and decomposition products. Examples of these processes include sawing, grinding, buffing and flame lamination, hot wire cutting, heat sealing and hot stamping.

Respiratory Protection: Should be selected based on the identity and concentration of air contaminant. Only NIOSH-approved respirators for protection against the air contaminant of concern should be used.

Eye Protection: Recommended for those processing operations that may generate dust.

Skin Protection: Use adequate hand protection during hot processing operations. Use guards and/or protective gloves for cutting operations.



IX. SPECIAL INFORMATION

1. DO NOT EXPOSE POLYURETHANE FOAM TO OPEN FLAMES OR OTHER DIRECT OR INDIRECT HIGH TEMPERATURE IGNITION SOURCES.

Polyurethane foam will burn if exposed to a sufficient heat source. The ignition temperature of polyurethane foam will vary depending on the product chemical formulation, but all polyurethane foams are combustible and represent a fire risk. Polyurethane foams, once ignited, may degrade and melt to a combustible liquid, which may add to the fire involvement.

2. TERMS SUCH AS “FIRE RETARDANT”, “SLOW BURNING”, “FLAME RESISTANT” AND “UNDERWRITER’S LABORATORY RATED” DESCRIBE CERTAIN FLAMMABILITY PROPERTIES AND MUST NOT BE REGARDED AS DENOTING FIRE SAFETY UNDER ALL CONDITIONS.

Additionally, small-scale fire tests are not intended to reflect hazards presented by these or any other material under real fire conditions.

3. SMOKE FROM BURNING FOAM IS IRRITATING TO THE EYES AND RESPIRATORY TRACT. SMOKE INHALED FROM BURNING OR SMOLDERING PRODUCT MAY BE TOXIC.

Thermal decomposition products from polyurethane foams can be toxic and present a risk to humans who are exposed. This is true for all organic materials. Fire risks in varying degrees are common to all fires: heat, carbon monoxide, other toxicants, oxygen depletion and smoke. In fires involving polyurethane foam, particularly flexible foams, great heat, and large quantities of dense smoke and potentially toxic gases can be generated quickly.

4. STANDARD FIRE-FIGHTING EQUIPMENT GENERALLY EMPLOYED BY AUTHORIZED FIREMEN IS MANDATORY

Personnel involved in fire fighting should wear self-contained breathing apparatus and be aware of the exposure to toxic and potentially lethal smoke and gases.

X. USERS RESPONSIBILITY

An MSDS such as this cannot be expected to cover all possible individual situations. The user has the responsibility to provide a safe workplace. All aspects of an individual operation should be examined to determine if, or where precautions -- in addition to those described herein -- are required. Any health hazard information contained herein should be passed on to your employees.

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by the use of this material. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of this material is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the material to which the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.