Material Safety data sheet

1. Product Information

Date Prepared: April 14, 2013

Chemical Family: Polyurethane Foam (1)/Vinyl Barrier (2)

Product Name: Foam / Barrier

2. hazardous ingredients

	CAS #	OSHA PEL/ACGIH TLV	% BY WEIGHT
Polyurethane Foam	9009-54-5	None Established	100%

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.

Barium Sulfate	7727-43-7	10mg/m³**
TWA		5mg/m³**

*Total dust **Respirable fraction

Calcium Oxide	1305-78-8	5mg/m³ / 2mg/m³
TWA		

3. physical/chemical chararteristics

Boiling Point: Not Available **Density/Specific Gravity (H2O=1):** 0.5- 40lbm/ft³(1) 2.20(2)

Vapor Pressure (mm Hg): Not Available **Melting Point:** 370 – 375°F(1)

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.(1)

Black, mild odor (2)

4. Fire and explosion hazard data

Flash Point: Decomposition products flash at >500°F(1) Above 200°F(2) **LEL:** None

Flammable Limits: Not Available **UEL:** None

Classification: Combustible Solid

NFPA Sprinkler Classification: Extra Hazard

Extinguishing Media: CO2, foam, dry chemical, or water spray

Special Fire Fighting Procedures: Full protective equipment including self-contained breathing apparatus should be worn.

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. (1) HC1, C12, CO released upon combustion. (2)

5. Reactivity data

Stability: Stable

Conditions to Avoid: Temperatures above 110°F, open flames, strong oxidizers (i.e. chlorates, bromates, nitrates, and hypochlorites) can cause discoloration to foam.

Incompatibility: Strong oxiding acids and bases – will degrade product.

Hazardous Decomposition

Products: Carbon monoxide, carbon dioxide, oxides of nitrogen, free isocyanate, acetaldehyde, acryloinitrile, polymer fragments, and hydrogen cyanide. (1) HC1, C12, CO. (2)

Hazardous Polymerization: Will not occur

6. health hazard data

Route 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.

Irritating Vapors

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.

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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

Indigestion: None necessary

7. precautions for safe handling and use

Steps to be Taken in Case

Material is Released or Spilled: No special response required.

Waste Disposal Method: Dispose of in accordance with Federal, State, and Local environmental regulations.

Safe Handling and Storage: Do not store near high temperature sources, any ignition sources such as exposed electrical or gas heating elements, open flames and exposed lights. Do not smoke in storage areas.

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

8. Control Measures

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.

Ventilation: Local exhaust ventilation is recommended for those processing procedures that may generate foam dust and decomposition products.

Eye Protection: Safety Glasses recommended for those processing operations that may generate dust.

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

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