



MSDS RYNO II
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THE GILMAN BROTHERS COMPANY

**The Gilman Brothers Company**

Gilman Road, Gilman, CT 03663-0038  
1-860-889-8444 Fax: 1-860-889-5226

**MATERIAL SAFETY DATA SHEET**

**Section 1: Product and Company Information**

**Product Name:** RYNO - II **Material Identification:** R4DA15363072PB  
**Tradenames & Synonyms:** Foam Board  
**Manufacturer:** The Gilman Brothers Company, Gilman, CT  
**Emergency Contacts:** Emergencies ONLY (after 5 PM ET and weekends): 1-800-852-4220  
**Health and Technical Contacts:** Health Issues Information and Technical Product Information (8 am – 5 pm ET): 1-860-889-8444

**Section 2: Composition and Ingredient Information**

<b>Components</b>	<b>Chemical Name</b>	<b>CAS Number</b>	<b>Wt. %</b>
Expandable Polystyrene	Homopolymer	9003-53-6	70 - 80
Paper	Cellulose	9004-34-6	27 - 35
Expanding Agent	Pentane	109-66-0 & 78-78-4	4 - 7
Polymer	Polymer	None Assigned	0.3 - 0.5

**Note:** See Section 8 of MSDS for exposure limit data for these ingredients.

**Section 3: Hazards Identification**

**Appearance and Odor:** White closed-cell foam board with no odor.  
**Emergency Overview:** To prevent ignition, avoid smoking, keep from open flames and high temperatures. Grinding, sawing or fabrication activities can produce dust particles, which may under certain conditions form explosive dust atmospheres that can be ignited.

**Primary Route(s) of Exposure:** Inhalation, skin, eye

**Potential Health Effects:**

**ACUTE (short term):** None under normal conditions of use. Inhalation of dust may cause temporary irritation to the eyes, nose or throat and coughing.

**CHRONIC (long term):** No long term health effects are expected from this product. See Section 11 of MSDS for additional toxicological data.

**Effects of Overexposure:** None under normal conditions of use. Overexposure to dust may cause eye irritation (itching) with discomfort. Irritation of the nose and upper respiratory tract (scratchy throat) may occur in extreme exposure. Call physician if discomfort occurs.

**Medical Conditions Aggravated by Exposure:**

Chronic respiratory or eyes conditions may worsen from exposure to these products.

**Section 4: First Aid Measures**

**Inhalation:** (for dust) None under normal conditions of use. If dust is inhaled, remove to fresh air. If breathing is difficult or irritation persists, administer oxygen. Obtain medical attention.

**Skin Contact:** Wash with mild soap and water.

**Eye Contact:** (for dust) In case of eye contact, immediately irrigate with running water for at least 15 minutes. Consult a physician if necessary.

**Ingestion:** Rinse mouth thoroughly with water. Call a physician if discomfort occurs.

## Section 5: Fire Fighting Measures

<b>Flammable Properties:</b>	Paper and foam will burn >451° F.
<b>Flash Point and Method:</b>	>615° F (324° C) Method – ASTM D1929
<b>Flammability Limits (%):</b>	Not Applicable
<b>Auto Ignition Temperature:</b>	910° F (480° C)
<b>Extinguishing Media:</b>	Water spray, CO2, or dry chemical.

**Unusual Fire and Explosion Hazards:** Produces dense black smoke while burning. Grinding, sawing or fabrication activities of the board can produce dust particles, which may under certain conditions form explosive dust atmospheres that can be ignited.

**Fire Fighting Instructions:** Use self-contained breathing apparatus (SCBA) in a sustained fire. Full protective bunker turnout gear should be employed by fire fighting forces.

**Hazardous Combustion Products:** Primary combustion products are carbon monoxide, carbon dioxide, styrene, sulfur oxides, and hydrogen sulfide. Other undetermined hydrocarbon fractions could be released in small quantities.

## Section 6: Accidental Release Measures

**Land Spill:** Scoop up material and put into suitable container for disposal as a non-hazardous waste.

**Water Spill:** This material will float and disperse with wind and current. Contain the material with booms and pick up with absorbents or adsorbent materials, or remove with a vacuum truck.

**Air Release:** This material will settle out of the air. It can then be scooped up or vacuumed for disposal as a non-hazardous waste.

## Section 7: Handling and Storage

<b>Storage Temperature:</b>	Not applicable	<b>Storage Pressure:</b>	Not applicable.
<b>General Requirements:</b>	Store in a cool, dry place.		

## Section 8: Exposure Controls and Personal Protection

<b>Ingredient</b>	<b>OSHA PEL</b> (8-hr TWA)	<b>ACGIH TLV</b> (8-hr TWA)
Polystyrene	5 mg/m <sup>3</sup> (respirable dust) 15 mg/m <sup>3</sup> (inhalable) 3 mg/m <sup>3</sup> (total dust)	10 mg/m <sup>3</sup>
Paper	5 mg/m <sup>3</sup> (respirable dust) 15 mg/m <sup>3</sup> (total dust)	10 mg/m <sup>3</sup>
Expanding Agent	None Established	None Established
Polymer	15 mg/m <sup>3</sup> (respirable dust) 15 mg/m <sup>3</sup> (total dust)	35 mg/m <sup>3</sup>

**Note** Although some of the additives used in this product may have exposure guidelines, these additives are encapsulated in the product and no exposure would be expected under normal handling conditions.

**Ventilation:** Provide sufficient general and/or local exhaust ventilation to maintain exposures below the PELs or TLVs. Grinding sawing or fabrication activities can produce dust particles, which may under certain conditions form explosive atmospheres that can be ignited.

### Personal Protection:

**Respiratory Protection:** A properly fitted NIOSH/MSHA approved disposable dust respirator such as the 3M model 8210 or 8710 or model 9900 (in high humidity environments) or equivalent should be used when high dust levels are encountered. Use respiratory protection in accordance with your company's respirator protection program, local regulations and OSHA regulations under 29 CFR 1910.134.

<b>Skin Protection:</b>	None	<b>Eye Protection:</b>	Safety glasses during fabrication.
<b>Work/Hygienic Practices:</b>	Handle in accordance with good industrial hygiene and safety practices.		

## Section 9: Physical and Chemical Properties

<b>Paper:</b>	<b>Appearance:</b>	White colored paper
	<b>Odor:</b>	Odorless
	<b>Boiling Point:</b>	Not Applicable
	<b>Vapor Pressure (mm Hg):</b>	Not Applicable
	<b>Vapor Density (Air = 1):</b>	Not Applicable
	<b>Solubility in Water:</b>	Negligible
	<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	0.7 – 0.9
	<b>% Volatiles:</b>	Not Applicable
	<b>pH:</b>	Not Applicable
<b>Foam:</b>	<b>Appearance:</b>	White foam
	<b>Odor:</b>	None
	<b>Boiling Point:</b>	decomposes >600° F (316° C)
	<b>Vapor Pressure (mm Hg):</b>	Not Applicable
	<b>Vapor Density (Air = 1):</b>	Not Applicable
	<b>Solubility in Water:</b>	Insoluble
	<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	0.021 – 0.064
	<b>pH:</b>	Not Applicable
	<b>Viscosity:</b>	Not Applicable
	<b>Physical State:</b>	Solid
	<b>Freezing Point:</b>	Softens @ 220° F (104° C)
	<b>Evaporation Rate:</b>	Not Applicable

## Section 10: Stability and Reactivity

**General:** Stable

**Incompatible Materials and Conditions to Avoid:** Hydrocarbons, esters and amines.

**Hazardous Decomposition Products:** None, except in fire. Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide and oxides of nitrogen. See Section 5 of MSDS for combustion products statement.

**Hazardous Polymerization:** Will not occur.

## Section 11: Toxicological Information

**Toxicological Properties:** (paper) This product has not been tested as a separate entity. Caution must therefore be exercised through the prudent use of protective equipment and handling procedures, to minimize exposure for hazards in which test data is either limited or does not exist.

**Carcinogenicity:** (foam) The following table indicates whether or not each agency has listed the ingredients as a carcinogen:

<b>Ingredient</b>	<b>ACGIH</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>
Paper Fiber	No	No	No	No
Polystyrene	No	No	No	No
Expanding Agent	No	No	No	No
Polymer	No	No	No	No

  

	<b>LD50 Oral</b> (g/kg)	<b>LD50 Dermal</b> (g/kg)	<b>LC50 Inhalation</b> (ppm, 4 hrs.)
Paper Fiber	Not Available	Not Available	Not Available
Polystyrene	Not Available	Not Available	Not Available
Expanding Agents	Not Available	Not Available	Not Available
Polymer	Not Available	Not Available	Not Available

## Section 12: Ecological Information

This material is not expected to cause harm to animals, plants or fish.

**COD:** Not Determined.

**Ecotoxicity:** Not Determined.

### Section 13: Disposal Considerations

**RCRA Hazard Class:** Non-hazardous

Dispose of material in accordance with federal, state, and local regulations.

### Section 14: Transportation Information

<b>DOT Shipping Names:</b>	Not Applicable / Not Regulated		
<b>Hazard Class or Division:</b>	None	<b>Secondary:</b>	None
<b>Identification No.:</b>	None	<b>Packing Group:</b>	None
<b>Label(s) required (if not excepted):</b>	None	<b>Freight Description:</b>	None
<b>Special Provisions:</b>	None	<b>Packaging Exceptions:</b>	None
<b>Non-bulk Packaging:</b>	None	<b>Bulk Packaging:</b>	None
<b>EPA Hazardous Substances:</b>	None	<b>RQ:</b>	None
<b>Quantity Limitations:</b>	<b>Passenger Aircraft:</b> None	<b>Cargo Aircraft:</b>	None
<b>Hazardous Material Shipping Description:</b>	None	<b>Marine Pollutants:</b>	None

### Section 15: Regulatory Information

**TSCA Status:** All ingredients used in this product are registered under the provisions of the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory for commercial purposes.

<b>SARA Title III:</b>	<b>Hazard Categories:</b>	<b>Reportable Ingredients:</b>
	Acute Health: No	Sec. 302/304: None
	Chronic Health: No	Sec. 313: None
	Fire Hazard: No	
	Pressure Hazard: No	
	Reactive Hazard: No	

**California Proposition 65:** This product does not contain chemicals known to the State of California to cause cancer, birth defects or other reproductive effects.

**WHMIS (Canada):** Status: Not Controlled      WHMIS Classification(s): None

### Section 16: Other Information

<b>HMIS and NFPA Hazard Rating:</b>	<b>Category</b>	<b>HMIS</b>	<b>NFPA</b>
	Acute Health	0	0
	Flammability	1	1
	Reactivity	0	0

**NFPA Unusual Hazards:** None  
**HMIS Personal Protection:** To be supplied by user depending upon use.

Legal Disclaimer: *While the information herein is believed to be reliable, no guarantee is made as to its accuracy or completeness. The Conditions of use, handling, storage, and disposal, and the suitability of the product for particular uses are beyond our control. Consequently, the user assumes all risks involving the use of the product. We expressly disclaim all warranties of every kind and nature, expressed or implied, including the warranties of merchantability and fitness for a particular purpose.*

For additional information concerning this product, contact the Technical Services Department at [The Gilman Brothers Company, Inc.](#)