

**SAFETY DATA SHEET**  
**DERBIBOARD**



**SECTION 1 IDENTIFICATION**

**Product Name** Derbiboard  
**Product Identifier** Rigid polyisocyanurate foam panel  
**Recommended Use** Rigid foam insulation panels for installation as delivered over roof decks. Consists of a flat or tapered closed-cell polyisocyanurate foam core bonded on both sides to a dark gray glass fiber reinforced felt facer. The thickness of the foam ranges from 1/2 to 4 inches. Intended to be covered by hot asphalt or coal tar BUR, modified bitumen, and single ply membrane system roof coverings.  
**Restrictions** None  
**Manufacturer** DERBIGUM Americas, Inc  
**Address** 4821 Chelsea Avenue  
Kansas City, MO 64130  
**Phone Number** (800) 727-9872  
**Emergency Number** (800) 424-9300 (CHEMTREC)

**SECTION 2 HAZARDS**

**Hazard Pictographs**



**Signal Word**

Warning

**Hazard Statements**

H372 - Causes damage to organs (central nervous system, eye, skin, lung, liver) through prolonged or repeated exposure (dermal, inhalation)

**Precautionary Statements**

P260 - Do not breathe fume, gas, vapors  
P264 - Wash hands, forearms and face thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P280 - Wear protective gloves and clothing  
P314 - Get medical advice/attention if you feel unwell  
P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

**SECTION 3 COMPOSITION AND INGREDIENT INFORMATION**

**Chemical Composition**

CHEMICAL NAME	CAS NUMBER	% BY WEIGHT *
isocyanurate homopolymer	None	78
n- pentane	109-66-0	<4.7
Fiberglass	65997-17-3	5
Carbon Black	1333-86-4	1

\* Weight % based on 1-inch foam thickness.

**SECTION 4 FIRST AID MEASURES**

<b>Eyes</b>	Flush eyes with running water for at least 15 minutes. Do not rub or wipe eyes. If irritation persists, consult a medical professional.
<b>Skin</b>	Wash with soap and cool running water.
<b>Inhalation</b>	Remove to fresh air. Drink water to clear throat and blow nose to remove dust.
<b>Ingestion</b>	Product is not intended to be ingested or eaten. If product is ingested, irritation of the gastrointestinal tract may occur, and should be treated symptomatically. Do not induce vomiting. Rinse mouth with water to remove particles, and drink plenty of water to help reduce the irritation. [No chronic effects are expected following ingestion.]
<b>Symptoms, Acute &amp; Delayed</b>	Refer to Section 11 - Toxicological Information
<b>Immediate Medical Attention</b>	This product is a mechanical irritant. It is not expected to produce any chronic health effects from acute exposures. Treatment should be directed toward removing the source of irritation with symptomatic treatment as necessary.

**SECTION 5 FIRE FIGHTING MEASURES**

<b>Flash Point</b>	Not applicable; product is not a liquid; <b>LEL:</b> 1.5% <b>UEL:</b> 7.8%
<b>Hazardous Products of Combustions</b>	Carbon dioxide, carbon monoxide and undetermined hydrocarbon fractions could be released in small quantities.
<b>Extinguishing Media</b>	Water spray/fog, CO <sub>2</sub> , dry chemical (consider media appropriate for surrounding materials)
<b>Firefighting instruction</b>	The product is a solid article that will burn if exposed to an ignition source of sufficient heat and intensity, or open flame, such as a welder's torch. It should be installed with a 15-minute thermal barrier between it and the structure's interior. Under certain fire conditions, combustible gases can be generated, creating rapidly spreading, high-intensity flames and dense, black smoke.
<b>Explosion Hazard</b>	None
<b>Protection Gear</b>	Firefighters should wear self-contained breathing apparatus (SCBA).

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	No special precautions should be necessary if material is used under ordinary conditions and as recommended.
<b>Environmental Precautions</b>	<p>Do not discard residues into sewers, storm sewers, or surface waters. If accidentally released to a water body, material will float and disperse with wind and current; contain the material with booms and remove either manually or with a vacuum truck.</p> <p>Chemicals in this material are not expected to cause harm to aquatic or terrestrial plants or animals; however, fish or other animals may eat the product, which could obstruct their digestive tracts.</p> <p>Be a good steward of the environment and clean up residues (some components of the product are not biodegradable).</p>
<b>Method and Materials for Containment &amp; Clean Up</b>	Pick up large pieces. Vacuum dust. If sweeping is necessary, use a dust suppressant such as water. These procedures will help to minimize potential exposures. Scoop up material and put into a suitable container for disposal as a nonhazardous waste.

**SECTION 7 HANDLING AND STORAGE**

**Handling** Cutting of product should be done in a manner to reduce or control generation of airborne dusts. Avoid unnecessary dust exposures when cutting or abrading by using adequate local or general ventilation. Avoid dust contact with ignition sources. Handle product using good industrial hygiene and safety practices.

**Storage** Store in a dry, well-ventilated area. Assure storage containers or areas and shipping containers are adequately ventilated. No Smoking—No Matches—No Lighters—No Welding rules should be enforced. Install according to manufacturer's recommendations.

**SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Respiratory Protection** If respiratory tract irritations occur or if any dust exposure limit is exceeded, use a respirator such as 3M Model 8271 or Model 8210, or equivalent for protection against nuisance dusts. When normal ventilation is provided to work area, no respiratory protection is needed for pentane vapor.

**Protective Clothing** To avoid skin irritation from excessive dust generated during cutting operations, wear long-sleeved, loose fitting clothing, long pants, and gloves.

**Eye Protection** Goggles or safety glasses with side shields are recommended.

**Work Area Cleanup:** Pick up large pieces; do not wash down drain. Sweep or vacuum smaller pieces into a waste container for disposal. If needed, use water spray to wet down and minimize dust generation. Do not dry sweep dust accumulation or use compressed air for cleanup.

**Work/Hygienic Practices** Exposed skin areas should be washed with soap and cool water after working with product. Clothing should be laundered separately from other clothes.

**Occupational Exposure Limits**

COMPONENT	CAS NUMBER	OSHA PEL mg/m <sup>3</sup>	ACGIH TLV mg/m <sup>3</sup>	NIOSH REL mg/m <sup>3</sup>
Nuisance dusts NOS containing no asbestos and <1% crystalline silica	14808-60-7	15 TWA (total) 5 TWA (respirable)	10 TWA	Not Established
Fiberglass	65997-17-3	See nuisance dusts	5 TWA	Not Established
Carbon black	1333-86-4	3.5 TWA	3.5 TWA	3.5 TWA 1,750 IDLH
n-Pentane	109-66-0	2,950 TWA	1,410 TWA	350 TWA 1,800 Ceiling 3,525 IDLH
Formaldehyde	50-00-0	0.9 TWA 2.5 STEL	0.4 TWA	0.02 TWA 0.12 STEL 25 IDLH

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Solid
<b>Appearance</b>	White cream colored solid with dark gray glass fiber reinforced felt facer
<b>Odor</b>	No odor
<b>pH</b>	No data available
<b>Relative Evaporation Rate</b>	No data available
<b>Boiling Point</b>	Not applicable; product is not a liquid
<b>Freezing Point</b>	No data available
<b>Flash Point</b>	Not applicable; product is not a liquid
<b>Auto-ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Specific Gravity (H<sub>2</sub>O =1)</b>	< 1
<b>Vapor pressure</b>	514 mm Hg at 25°C
<b>Vapor Density (AIR=1)</b>	2.49
<b>Solubility in Water</b>	Insoluble

**SECTION 10 STABILITY AND REACTIVITY**

<b>Stability</b>	Stable. Service temperature range: -100 to 250°F. To prevent structural deterioration, avoid contact with acetone, methyl ethyl ketone, tetrahydrofuran, chlorine, chloroform, hydrogen peroxide, ethylene dichloride, dimethyl sulfoxide, and dimethylformamide.
<b>Hazardous Decomposition</b>	None identified
<b>Hazardous Polymerization</b>	Will not occur

**SECTION 11 TOXICOLOGICAL INFORMATION**

<b>LD50 Oral Rat</b>	>446 mg/kg (based upon Textile Fibrous Glass)
<b>LD50 Dermal Rabbit</b>	None identified
<b>Mutagenicity</b>	None identified
<b>Carcinogenicity</b>	Textile Fibrous Glass
<b>Teratogenicity</b>	None identified
<b>Reproductive Toxicity</b>	None identified

**INHALATION HAZARDS:**

<b>Polyiso foam Acute Effects</b>	Dust may cause transient mechanical irritation of the upper respiratory tract. Work place exposures to residual pentanes from this product are expected to be below levels of any health risk. Overexposure to high concentrations of pentane can cause narcotic effects. Signs and symptoms of overexposure to pentane include headache, nausea, dizziness, difficulty walking, or sleepiness. Studies have shown that short-term (10-minute) exposures to pentane concentrations as high as 5,000 ppm (11,750 mg/m <sup>3</sup> ) produced no symptoms.
<b>Chronic Effects</b>	There is no evidence that dust from polyiso foam causes disease in humans, and no chronic effects are known for exposures to pentane.

**SECTION 11 TOXICOLOGICAL INFORMATION**

**INHALATION HAZARDS:**

**Filament glass fibers**  
**Acute Effects**

*(generated dust and residual vapor)*

Airborne fragments of glass fibers may cause mechanical irritation of the upper respiratory tract, particularly mouth, nose and throat; glass dust may cause transient irritation of the upper respiratory tract.

**Chronic Effects**

No chronic health effects are known to be associated with exposure to glass fibers. Results from epidemiological studies have not shown any increase in respiratory disease or cancer. The International Agency for Research on Cancer has classified continuous filament fiberglass "Not Classifiable as to Carcinogenicity to Humans" (Group 3).

**Limestone and L**  
**Acute Effects**

*(generated dust and residual vapor)*

Dust may cause transient mechanical irritation of the upper respiratory tract. Workplace exposure limits are provided in table below.

**Chronic Effects**

There is no evidence that dust, containing limestone or latex, causes disease in humans.

**EYE CONTACT HAZARDS:**

**Acute Effects**

Dust may cause transient mechanical irritation of the upper respiratory tract. Workplace exposures to residual pentanes from this product are expected to be below levels of any health risk. Overexposure to high concentrations of pentane can cause narcotic effects. Signs and symptoms of overexposure to pentane include headache, nausea, dizziness, difficulty walking, or sleepiness. Studies have shown that short-term (10-minute) exposures to pentane concentrations as high as 5,000 ppm (11,750 mg/m<sup>3</sup>) produced no symptoms.

**Chronic Effects**

There is no evidence that dust from polyiso foam causes disease in humans, and no chronic effects are known for exposures to pentane

**SKIN CONTACT HAZARDS:**

**Acute Effects**

Direct contact with rough-cut foam or facers can cause mechanical abrasion cuts or puncture to fingers, hands or exposed skin.

**Chronic Effects**

None known

**SECTION 12 ECOLOGICAL INFORMATION**

Chemicals in this material are not expected to cause harm to aquatic or terrestrial plants or animals; however, fish or other animals may eat the product, which could obstruct their digestive tracts.

Be a good steward of the environment and clean up residues (some components of the product are not biodegradable).

This product is not manufactured with, nor does it contain any Class 1 Ozone depleting chemicals as defined by EPA in Title VI of the Clean Air Act Amendments of 1990 40 CFR Part 82, Protection of Stratospheric Ozone.

This product is not classified as a hazardous air pollutant in the Title III Clean Air Act of 1990.

**SECTION 13 DISPOSAL CONSIDERATIONS**

This product, if discarded as supplied, is not considered a hazardous waste under RCRA (40 CFR 261) and may be placed directly into receptacles that will transport the waste to a municipal waste, industrial waste, or demolition waste landfill. If contact with a contaminating substance alters the material, it is the user's responsibility to determine at the time of disposal whether it meets RCRA criteria for hazardous waste. Dispose in accordance with federal, state and local regulations.

**SECTION 14** TRANSPORT INFORMATION

**Transportation Regulations** This product is not regulated as a hazardous material in transportation.  
**National Motor Freight Classification (NMFC)** 157320, Class 150

**SECTION 15** REGULATORY INFORMATION

**TSCA Inventory** Components are listed  
**DSL Inventory** Components are listed  
**WHMIS Classification** This product has been classified in accordance with the hazard criteria of Canada's Controlled Products Regulations and the SDS contains all of the information required by said regulations. All chemical components are on Canada's Domestic Substances List (DSL). Pentane is the only constituent on Canada's Ingredients Disclosure List (IDL) that exceeds threshold concentrations.  
**Sara 313** None present  
**Sara 311/312 Categories** Acute Health Hazard; Chronic Health Hazard  
**CERCLA** None present  
**California Proposition 65** Known to the State of California to Cause Cancer. This warning is provided in accordance with the California Safe Drinking Water and Toxic Enforcement Act of 1986.  
**Right to Know States**

COMPONENT	CAS NUMBER	CA	MA	MN	NJ	PA	RI
n-Pentane	109-66-0	Yes	Yes	Yes	Yes	Yes	Yes
Fiberglass	65997-17-3	No	No	Yes	No	No	No
Carbon black	1333-86-4	No	Yes	No	Yes	Yes	No
Formaldehyde	50-00-0	Yes	Yes	Yes	Yes	Yes	Yes
Silica, crystalline	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes

**SECTION 16** OTHER INFORMATION

This material has been defined as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

COMPONENT	HEALTH	FIRE	REACTIVITY
NFPA Rating	1	1	0
HMIS Rating	1	1	0

*Reason for revision: Solvent Change & updated hazard information*

The information and recommendations contained herein are to the best of DERBIGUM Americas' knowledge and belief, accurate and reliable as of the date issued. DERBIGUM Americas does not warrant or guarantee their accuracy or reliability, and DERBIGUM Americas shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the users consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. It is also the users responsibility to make certain that it is relying upon the most recent, updated, information and recommendations available from DERBIGUM Americas.

The Environmental Information included, as well as the Hazardous Material Identification System (HMIS) and National Fire Protection Association (NFPA) ratings, have been included by DERBIGUM Americas in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with DERBIGUM Americas' interpretation of the available data.