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	Performance Roof Systems
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.*

ABBREVIATION KEY

SECTION 4 FIRST AID MEASURES

Eyes	Flush eyes with running water for at least 15 minutes. Do not rub or wipe eyes. If irritation persists, consult a medical professional.
Skin	Wash with soap and cool running water.
Inhalation	Remove to fresh air. Drink water to clear throat and blow nose to remove dust.
Ingestion	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.]
Symptoms, Acute & Delayed	Refer to Section 11 - Toxicological Information
Immediate Medical Attention	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

Flash Point	Not applicable; product is not a liquid; **LEL:** 1.5% **UEL:** 7.8%
Hazardous Products of Combustions	Carbon dioxide, carbon monoxide and undetermined hydrocarbon fractions could be released in small quantities.
Extinguishing Media	Water spray/fog, CO2, dry chemical (consider media appropriate for surrounding materials)
Firefighting instruction	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.
Explosion Hazard	None
Protection Gear	Firefighters should wear self-contained breathing apparatus (SCBA).

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	No special precautions should be necessary if material is used under ordinary conditions and as recommended.
Environmental Precautions	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. 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).
Method and Materials for Containment & Clean Up	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.

ABBREVIATION KEY

LEL = Lower Explosion Limit UEL = Upper Explosion Limit

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/m³	ACGIH TLV mg/m³	NIOSH REL mg/m³
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

ABBREVIATION KEY

NIOSH = National Institute for Occupational Safety
OSHA = Occupational Safety & Health Administration
ACGIH = American Conference of Governmental Industrial Hygiene
PEL = Permissible Exposure Level
TLV = Threshold Limit Value
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	White cream colored solid with dark gray glass fiber reinforced felt facer
Odor	No odor
pH	No data available
Relative Evaporation Rate	No data available
Boiling Point	Not applicable; product is not a liquid
Freezing Point	No data available
Flash Point	Not applicable; product is not a liquid
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Specific Gravity (H_20 =1)	<1
Vapor pressure	514 mm Hg at 25°C
Vapor Density (AIR=1)	2.49
Solubility in Water	Insoluble

SECTION 10 STABILITY AND REACTIVITY

Stability	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.
Hazardous Decomposition	None identified
Hazardous Polymerization	Will not occur

SECTION 11 TOXICOLOGICAL INFORMATION

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

INHALATION HAZARDS:

Polyiso foam

Acute Effects	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/m3) 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.

ABBREVIATION KEY

NIOSH = National Institute for Occupational Safety
LD50 = Lethal dose, 50 percent
MSHA = Mine Safety and Health Administration
LC50 = Lethal concentration, 50 Percent

SECTION 11 TOXICOLOGICAL INFORMATION

INHALATION HAZARDS:

Filament glass fibers *(generated dust and residual vapor)*
Acute Effects 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 *(generated dust and residual vapor)*
Acute Effects 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. 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^3) 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.

ABBREVIATION KEY

IARC = International Agency for Research on Cancer
ACGIH = American Conference of Governmental Industrial Hygiene
NTP = National Toxicology Program
STOT = Specific Target Organ Toxicity

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

Preparation Date January 2016

Revision Date January 2022

Summary of Changes Branding update

Disclaimer The information and recommendations contained herein are to the best of Performance Roof Systems' knowledge and belief, accurate and reliable as of the date issued. Performance Roof Systems does not warrant or guarantee their accuracy or reliability, and Performance Roof Systems 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 Performance Roof Systems.

ABBREVIATION KEY

TSCA = Toxic Substances Control Act
WHIMIS = Workplace Hazardous Materials Information System (Canada)
IARC = International Agency for Research on Cancer
GHS = Global Harmonized System
DSL = Domestic Substances List (Canada)
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
NIOSH = National Institute for Occupational Safety