

SECTION 1 IDENTIFICATION

Product Name	APP Modified Bitumen Waterproofing Membrane
Synonyms	Deribase, Deribase Ultra, Deribase HV, Derbicolor P, Derbicolor P-FR, Derbicolor P-FR Ultra, Derbicolor P-FR-CR Ultra, Derbicolor GP, Derbicolor GP-FR, Derbicolor XPS, Derbicolor XPS-FR, Derbigum P, Derbigum GP, Derbigum GP-FR, Derbigum XPS and Derbigum XPS-FR, Bitutak MB, Bitutak MB Mineral, Bitutak MB Mineral CR, Bitutak Cold, Bitutak Cold Mineral
Recommended Use	Waterproofing membrane for low-sloped roofs
Restrictions	Contact Manufacturer
Manufacturer	Performance Roof Systems
Address	4821 Chelsea Avenue Kansas City, MO 64130
Phone Number	(800) 727-9872

SECTION 2 HAZARDS

GHS Classification	As defined in the OSHA Hazard Communication Standard, 29 CFR 1910.1200, the products listed below are considered articles and do not require an SDS. In addition, articles are not included in the scope of the Globally Harmonization System (GHS). As such, the GHS labeling elements are not included on this SDS. All components listed for this product are bound within the product. When handled as intended and under normal conditions of use, there is no evidence that any of the ingredients are released in amounts that pose a significant health risk. Although these products are not subject to the OSHA Standard or GHS labeling elements, Performance Roof Systems would like to disclose as much health and safety information as possible to ensure that this product is handled and used properly. This SDS contains valuable information critical to the safe handling and proper use of the product.
Hazard Pictographs	Not Applicable
Signal Word	Not Applicable
Hazard Statements	Not Applicable
Precautionary Statements	P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood 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 P273 - Avoid release into the environment P280 - Wear protective gloves and clothing
Response	P301+P310 - If swallowed: Immediately call a Poison Center or doctor/physician. Do not induce vomiting. Collect Spillage. P303+P361+P353 - If on skin (or hair), Take off immediately all contaminated clothing. Rinse skin with water/shower P303+P340 - If inhaled, remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P308+P313 - If exposed or concerned, get medical advice/attention

ABBREVIATION KEY

GHS = Global Harmonized System
OSHA = Occupational Safety & Health

HCS = Hazard Communication Standard

SECTION 2 HAZARDS

Response	P314 - Get medical advice/attention if you feel unwell P370+P378 - In case of fire: Use carbon dioxide (CO ₂), foam, dry extinguishing powder to extinguish
Storage	P403+P235 - Store in well-ventilated place. Keep cool
Disposal	P501 - Dispose of contents and/or container in accordance with local, regional and national regulations

SECTION 3 COMPOSITION

Chemical Composition: Mixture

COMPONENT	CAS NUMBER	PERCENT BY WEIGHT	GHS CLASSIFICATION
Asphalt ¹	8052-42-4	25 - 60	Carc. 1B, H350
Limestone ¹	1317-65-3	0 - 35	Not classified
Silica Crystalline ²	14808-60-7	1 - 5	Carc. 1A, H350

Note: The above components and their percentages are provided for health and safety purposes, ONLY. This document should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

¹ Component is not likely to occur above the limits of exposure considering its incorporated into the mixture and/or provided use.

² Concentrations above the limit of exposure are not likely to be found in the ambient air due to adhesion to the membrane's surface.

SECTION 4 FIRST AID MEASURES

Eyes	If foreign matter enters eyes, immediately flush with large amounts of potable water for at least 15 minutes or until irritation subsides. Get medical attention if irritation persists.
Skin	Remove contaminated clothing and wash with soap and water.
Inhalation	Remove affected person from source of exposure. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, give oxygen. Get medical attention.
First-Aid, Ingestion	Consult a physician if unusual reaction is noted. Product is not intended nor is it likely to be ingested or eaten.
Symptoms, Acute & Delayed	Refer to Section 11 - Toxicological Information
Immediate Medical Attention	All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials

SECTION 5 FIRE FIGHTING MEASURES

Flash Point	> 520-650°F (ASTM D92)
Hazardous Products of Combustions	Carbon dioxide, carbon monoxide and partially burned carbon
Extinguishing Media	Foam CO ₂ or dry chemical extinguishers.
Firefighting instruction	Burning of this product will produce thick black smoke.
Explosion Hazard	None
Protection Gear	Firefighters should wear full face, self contained breathing apparatus and impervious protective clothing to avoid smoke inhalation and lack of oxygen.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	No special precautions should be necessary if material is used under ordinary conditions and as recommended.
Emergency Procedures	No emergency procedures should be necessary if material is used under ordinary conditions as recommended.
Environmental Precautions	Avoid run off to waterways and sewers.
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.

SECTION 7 HANDLING AND STORAGE

Handling	Use this product with adequate ventilation. Avoid breathing dusts or fumes generated from cutting or heating this material. Always wash work clothes separately from other clothing. Wash thoroughly after handling. Use personal protective equipment as described in Section 8.
Storage	Store indoors in a cool, dry, well-ventilated area. Do not handle or store near an open flame, heat or other sources of ignition. This product will react with strong oxidizing agents, reducing agents, strong acids and alkali

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	NIOSH
Asphalt	8052-42-4	Not Established	0.5 mg/m ³ TWA (respirable)	5 mg/m ³ Ceiling (fume, 15 min)
Limestone	1317-65-3	5 mg/m ³ (respirable) 15 mg/m ³ (total dust)	3 mg/m ³ (respirable) 10 mg/m ³ TWA	5 mg/m ³ (respirable) 10 mg/m ³ (total dust)
Silica, crystalline	14808-60-7	0.1 mg/m ³ TWA (respirable)	0.025 mg/m ³ TWA (respirable)	0.05 mg/m ³ TWA (respirable)

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 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Measures/ Controls	Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.
General Industrial Hygiene	Use good industrial hygiene practices in handling this material.
Environmental Exposure Controls	Follow best practice for site management and disposal of waste.

PERSONAL PROTECTIVE EQUIPMENT

Pictographs



Eyes/Face	Safety glasses with side shields Follow the national guidelines concerning the use of protective eye wear.
Hand	Protective Gloves Leather or cotton gloves may be worn to prevent skin contact and irritation.
Skin/Body	Normal work clothing (long sleeved shirts, long pants and smooth bottom work shoes) is recommended.
Inhalation	Use NIOSH or MSHA approved respiratory protective equipment when airborne exposure limits are exceeded.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Various colors
Odor	Slight asphalt odor
Odor Threshold	No data available
pH	No data available
Relative Evaporation Rate	No data available
Boiling Point	> 900°F; > 482°C
Freezing Point	No data available
Flash Point	520-650°F
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Specific Gravity (H₂O =1)	No data available
Vapor pressure	No data available
Vapor Density (AIR=1)	No data available
Solubility in Water	NIL

SECTION 10 STABILITY AND REACTIVITY

Stability	Stable at room temperature in closed containers under advised storage and handling conditions.
Reactivity	Upon combustion CO and CO ₂ are formed
Conditions to Avoid	Strong oxidizers, no spark or open flame, direct sunlight and high temperatures
Hazardous Decomposition	Carbon monoxide, carbon dioxide, hydrogen sulfide and sulfur dioxide
Hazardous Polymerization	Will not occur

SECTION 11 TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Eyes

Acute (Immediate)	Not expected to present a hazard to the eyes. Mechanical irritation may occur in contact with particles.
Chronic (Delayed)	No data available

Skin

Acute (Immediate)	Mechanical abrasion may occur in contact with skin. Thermal burns when handled at elevated temperatures.
Chronic (Delayed)	No data available

Inhalation

Acute (Immediate)	For torch-on applications, inhalation of fumes may result in irritation, especially if the product is over heated above recommended temperatures.
Chronic (Delayed)	This product contains crystalline silica which is listed by IARC as a suspect carcinogen. Silicosis (pulmonary fibrosis or severe lung scarring) may occur if exposed to high levels or repeated encounters with dust. Exposure to airborne particles that exceed the limits listed may cause lung cancer. This product also contains petroleum asphalt. If heated, there is limited evidence that derivatives of asphalt fumes may cause carcinogenic effects in animals. There is inadequate evidence to support that asphalt fumes alone are carcinogenic to humans.

Ingestion

Acute (Immediate)	Product is not intended nor is it likely to be ingested or eaten.
Chronic (Delayed)	No data available

Component Analysis

COMPONENT	CAS NUMBER	ORAL LD50 (mg/kg)	DERMAL LD50 (mg/kg)	INHALATION LC50 (mg/L)
Asphalt	8052-42-4	>2,000 (rat)	>2,000 (rabbit)	<0.094 (rat)
Limestone	1317-65-3	500 (rat)	N/A	>1 (rat)
Silica Crystalline	14808-60-7	>2,000 (rat)	>2,000 (rat)	>3 (rat)

ABBREVIATION KEY

IARC = International Agency for Research on Cancer
NTP = National Toxicology Program
ACGIH = American Conference of Governmental Industrial Hygiene

LD₅₀ = Lethal dose, 50 percent
LC₅₀ = Lethal concentration, 50 Percent
STOT = Specific Target Organ Toxicity

SECTION 11 TOXICOLOGICAL INFORMATION

Component Carcinogenicity	Asphalt (8052-42-4) IARC: Group 2B - Possible Carcinogen Limestone (1317-65-3) IARC: Group 2B - Possible Carcinogen Crystalline silica (14808-60-7) IARC: Group 1 - Known Human Carcinogen (IARC Monograph 68 [1997]) ACGIH: A2 - Suspected Human Carcinogen NTP: Known Human Carcinogen
Mutagenicity	Based on available data, the classification criteria are not met.
STOT Single Exposure	Based on available data, the classification criteria are not met.
STOT Repeated Exposure	OSHA HCS 2012 ▪ STOT RE Hazard Category 1
Carcinogenic Effects	When used under normal conditions, this product is not considered a carcinogen. Based upon the newly published IARC classifications for bitumen/asphalt fumes, it has been determined that there is inadequate evidence to support that asphalt fumes alone are carcinogenic to humans. This product contains crystalline silica which is listed by IARC as a suspect carcinogen. Silicosis (pulmonary fibrosis or severe lung scarring) may occur if exposed to high levels or repeated encounters with dust. Exposure to airborne particles that exceed the limits listed may cause lung cancer.

SECTION 12 ECOLOGICAL INFORMATION

General	Employ best management practices to prevent this material from entering storm sewer systems, waterways or otherwise impacting plant and animal species.
Component Analysis	No data available
Environmental Transport	No data available
Environment Degradation	No data available
Soil Absorption/Mobility	No data available
Other Information	This product has not been tested. Based on information related to all raw materials in the finished product it is not expected to harm ecosystems through its applied use.

SECTION 13 DISPOSAL CONSIDERATIONS

Product Waste	The transportation, storage, treatment and dispose of this waste must be conducted in accordance with all applicable federal, state and local regulations.
Packaging Waste	The transportation, storage, treatment and dispose of this waste must be conducted in accordance with all applicable federal, state and local regulations.

SECTION 14 TRANSPORT INFORMATION

Transportation Regulations	This product is not regulated as a hazardous material in transportation.
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ABBREVIATION KEY

IARC = International Agency for Research on Cancer
HCS = Hazard Communication Standard

OSHA = Occupational Safety & Health
STOT = Specific Target Organ Toxicity

SECTION 15 REGULATORY INFORMATION

TSCA Inventory	Components are listed
DSL Inventory	Components are listed
WHMIS Classification	Controlled Product Classification: D2A, based on the IARC classification of crystalline silica and Limestone
Sara 313	None present
Sara 311/312 Categories	None present
CERCLA	None present
CA Proposition 65	Petroleum Asphalt (CAS #8052-42-4); Silica, crystalline (CAS #14808-60-7) WARNING: This product contains a chemicals known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov
IRCA	Petroleum Asphalt (CAS #8052-42-4); Silica, crystalline (CAS #14808-60-7) Limestone (CAS #1317-65-3)
NIOSH	Petroleum Asphalt (CAS #8052-42-4); Silica, crystalline (CAS #14808-60-7)
Right to Know States	

COMPONENT	CAS NUMBER	STATES
Asphalt	8052-42-4	CA, MA, NJ, PA RI
Limestone	1317-65-3	MA, MN, PA
Silica Crystalline	14808-60-7	CA, MA, MN, NJ, PA, RI

SECTION 16 OTHER INFORMATION

Preparation Date	March 2023
Summary of Changes	Change to GHS Classification, Product not considered hazardous due to OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Disclaimer	<p>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.</p> <p>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.</p>

ABBREVIATION KEY

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