SAFETY DATA SHEET

PERMAPRIME BLEED BLOCK SS

SECTION 1 IDENTIFICATION

Product Name	PermaPrime Bleed Block SS
Product Identifier	Asphalt Bleed Resistant Primer
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

GHS Classification

Skin Sensitization: Category 1
Carcinogenicity: Category 2

Hazard Pictographs

Signal Word

WARNING

Hazard Statements

H317 - May cause an allergic skin reaction
H351 - Suspected of causing cancer

Precautionary Statements

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P233 - Keep container tightly closed
P261 - Avoid breathing vapors
P362 - Take off contaminated clothing and wash before reuse
P264 - Wash hands, forearms and face thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only out doors or in a well-ventilated area
P273 - Avoid release into the environment
P280 - Wear protective gloves/eye protection/face protection

Response

P301+P330+P331 - If swallowed: Rinse mouth; Do Not induce vomiting
P303+P361+P353 - If on skin (or hair), Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340+P312 - If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338 - If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P332+P313 - If skin irritation or rash occurs: Get medical advice/ attention.
P337+P313 - If eye irritation persists: Get medical advice/ attention.
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
P405 - Store locked up
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

ABBREVIATION KEY

GHS = Global Harmonized System
STOT = Specific Target Organ Toxicity

SECTION 3 COMPOSITION

Chemical Composition

COMPONENT	CAS NUMBER	PERCENT BY WEIGHT
Titanium dioxide*	13463-67-7	5 - 10
Crystalline silica*	14808-60-7	< 1
Silicon dioxide	112945-52-5	< 1

** Components listed for their unbound powder form. When these components are used in applications such as coatings, they become part of a mixture and are not considered hazardous.*

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. Some product identifiers are withheld as a trade secret in accordance with 29 CFR 1910.1200.*

SECTION 4 FIRST AID MEASURES

Eyes — Flush with large amounts of potable water. Eye lids should be held away the eyeball to ensure thorough rinsing. 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.

Ingestion — DO NOT induce vomiting unless directed to do so by a physician or poison control center. Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person. Keep respiratory tract clear. Get medical attention immediately.

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

Fire Hazard — Product is non-combustible

Hazardous Combustion — Carbon monoxide, carbon dioxide, Acrylic monomers and other potentially toxic fumes

Extinguishing Media — Alcohol-resistant foam, carbon dioxide, dry powder or water fog

Explosion Hazard — Containers can burst violently or explode when heated. Cool containers exposed to heat with water spray and move them from the fire area if it can be done without risk.

Firefighting instruction — Use standard procedure for chemical fires. Do not use direct water on substance. Water and foam may cause frothing. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Evacuate area. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Protection Gear — Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

ABBREVIATION KEY

NFPA = National Fire Protection Association

SCBA = Self contained breathing apparatus

SECTION 6 ACCIDENTAL RELEASE MEASURES

Non-emergency Personnel

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in ***Section 8***. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material.

Environmental Precautions

Avoid release into the environment. Report releases as required by local, state and federal authorities.

Methods and Material for Containment & Clean up

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of in an approved facility, ***see Section 13, Disposal Considerations.***

SECTION 7 HANDLING AND STORAGE

Handling

Use personal protective equipment as described in Section 8. Do not handle until all safety precautions have been read and understood. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Smoking, eating, and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical products.

Storage

Store away from incompatible materials ***(see Section 10)***. Store in accordance with local regulations. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	NIOSH REL
Titanium Dioxide	13463-67-7	15 mg/m³ TWA (total)	10 mg/m³ TWA	Not Established
Crystalline silica	14808-60-7	0.1 mg/m³ TWA (respirable)	0.025 mg/m³ TWA (respirable)	0.05 mg/m³ TWA (respirable)
Silicon dioxide	112945-52-5	80 mg/m³ TWA (respirable)	6 mg/m³ TWA	6 mg/m³ TWA

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.

ABBREVIATION KEY

OSHA = Occupational Safety & Health Administration
NIOSH = National Institute for Occupational Safety
ACGIH = American Conference of Governmental Industrial Hygiene
REL = Recommended exposure limit
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

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** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary
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	Liquid
Appearance	various
Odor	Mild ammonia odor
Odor Threshold	Not available
pH	8.5
Relative Evaporation Rate	Not available
Boiling Point	~ 212°F similar to water
Freezing Point	Not available
Flash Point	< 200°F
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Flammability (solid, gas)	Not available
Vapor pressure	17 mm Hg @ 68°F similar to water
Vapor density	Not available
Specific Gravity	1.37
Density	11.39 lb/gal
VOC	<50 g/L

SECTION 10 STABILITY AND REACTIVITY

Stability	Stable at room temperature in closed containers under advised storage and handling conditions.
Reactivity	No potentially hazardous reactions known
Conditions to Avoid	Strong oxidizers
Hazardous Decomposition	Thermal decomposition or combustion may produce harmful gases or vapors
Hazardous Polymerization	Will not occur

ABBREVIATION KEY

VOC = Volatile organic compound

SECTION 11 TOXICOLOGICAL INFORMATION

Component Analysis

COMPONENT	CAS NUMBER	ORAL LD50 (mg/kg)	DERMAL LD50 (mg/kg)	INHALATION LC50 (mg/L)
Titanium Dioxide	13463-67-7	> 5,000 (rat)	> 10,000 (rabbit)	>6.82 (rat) 4 hour
Crystalline silica	14808-60-7	>500 (rat)	N/A	N/A
Silicon dioxide	112945-52-5	>5,000 (rat)	>2,000 (rat)	N/A

POTENTIAL HEALTH EFFECTS

Eyes
- **Acute *(Immediate)*** — May cause temporary irritation, tearing and burning
- **Chronic (Delayed)** — This product is not expected to cause serious eye damage or irritation

Skin
- **Acute *(Immediate)*** — Prolonged skin contact may cause dryness, redness or cracking
- **Chronic (Delayed)** — May cause skin sensitization or allergic reactions in sensitive individuals.

Inhalation
- **Acute *(Immediate)*** — Prolonged inhalation may cause irritation of the nose, throat, and lungs
- **Chronic (Delayed)** — No data available

Ingestion
- **Acute *(Immediate)*** — Gastrointestinal symptoms, including upset stomach
- **Chronic (Delayed)** — No data available

Component Carcinogenicity — Crystalline silica (14808-60-7)
IARC: Group 1 - Known Human Carcinogen (IARC Monograph 68 [1997]
ACGIH: A2 - Suspected Human Carcinogen
NTP: Known Human Carcinogen
Titanium Dioxide (13463-67-7)
IARC: Group 2B - Known Human Carcinogen

Carcinogenicity — According to IARC, No significant exposure to titanium dioxide and crystalline silica should occur because these components are bound in the polymer matrix and dust exposure would not be expected

Teratogenicity — Based on available data, the classification criteria are not met.

Mutagenicity — Based on available data, the classification criteria are not met.

Aspiration Hazard — 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 — Based on available data, the classification criteria are not met.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Eco-toxicity

COMPONENT	CAS NUMBER	FISH LC50 (mg/L)	DAPHNA EC50 (mg/L)	ALGAE EC50 (mg/L)
Titanium Dioxide	13463-67-7	>1,000 96 Hours	>1,000 (Water flea) 48 Hours	N/A

Eco toxicity — This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Biodegradability — No Data available

Bioaccumulation Potential — No Data available

Soil Absorption/Mobility — No Data available

Ozone-Depletion Potential — No known significant effects or critical hazards

ABBREVIATION KEY

LD50 = Lethal dose, 50 percent
IARC = International Agency for Research on Cancer
ACGIH = American Conference of Governmental Industrial Hygiene
LC50 = Lethal concentration, 50 Percent
NTP = National Toxicology Program
STOT = Specific Target Organ Toxicity

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 Empty containers should be taken to an approved waste handling site for recycling or disposal. Packaging that cannot be reused after cleaning must be disposed or recycled in accordance with all federal, national and local regulations.

SECTION 14 TRANSPORT INFORMATION

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

SECTION 15 REGULATORY INFORMATION

TSCA Inventory Components are listed

DSL Inventory Components are listed

CERCLA This material does not contain any components

Sara 311/312 Categories Chronic Health Hazard

Sara 313 This material does not contain any components with a section 304 EHS RQ

Clean Air Act This product does not contain any hazardous air pollutants

CA Proposition 65 **WARNING:** This product can expose you to chemicals including silica and titanium dioxide, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Right to Know States

COMPONENT	CAS NUMBER	CA	MA	MN	NJ	PA	RI
Titanium Dioxide	13463-67-7	Yes	Yes	Yes	Yes	Yes	Yes
Crystalline silica	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes
Silicon dioxide	112945-52-5	No	Yes	Yes	No	Yes	No

SECTION 16 OTHER INFORMATION

Preparation Date April 2020

Revision Date March 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

LC_{50} = Lethal concentration, 50 Percent
TSCA = Toxic Substances Control Act
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act,
EC_{50} = Effective concentration, 50 Percent
DSL = Domestic Substances List (Canada)
SARA = Superfund Amendments and Reauthorization Act