

## **SECTION 1** IDENTIFICATION

Product Name PermaCool PW

Product Identifier Acrylic Roof Coating

**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

Acute AquaticToxicity - Category 3 Chronic aquatic toxicity - Category 4

**Hazard Pictographs** 





Signal Word WARNING

**Hazard Statements** H317 - May cause an allergic skin reaction

H351 - Suspected of causing cancer

H402 - Harmful to aquatic life

H413 - May cause long lasting harmful effects to aquatic life

**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

P391 - Collect Spillage

**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



## **SECTION 2 HAZARDS**

**Response** 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<sub>2</sub>), 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

#### **SECTION 3 COMPOSITION**

## **Chemical Composition**

COMPONENT	CAS NUMBER	PERCENT BY WEIGHT
Limestone*	1317-65-3	10 - 50
Titanium Dioxide*	13463-67-7	1 - 15
Zinc Oxide	1314-13-2	0 - 5
Aluminum hydroxide	21645-51-2	0 - 15
Crystalline silica	14808-60-7	< 1
Ammonium hydroxide	1336-21-6	< 1
Biocide	Proprietary	< 1

<sup>\*</sup> 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 Immediately 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
Immediate Medical Attention

Refer to Section 11 - Toxicological Information

**on** 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 Hazardous Combustion

Extinguishing Media Firefighting instruction Product is non-combustible

Carbon monoxide, carbon dioxide, Acrylic monomers and other potentially toxic fumes Alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Use standard procedure for chemical fires. Do not use direct water on substance. Water and foam may cause frothing. Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. 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.

**Explosion Hazard** 

**Protection Gear** 

Containers can burst violently or explode when heated, due to excessive pressure build-up.

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.

#### **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** 

Methods and Material for Containment & Clean up

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

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. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. May cause cancer. Avoid discharge to the aquatic environment. Do not handle broken packages without protective equipment. Do not reuse empty containers.

**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	OSHA PEL ACGIH TLV	
Limestone	1317-65-3	5 mg/m³ (respirable) 15 mg/m³ (total)	3 mg/m³ (respirable) 10 mg/m³ (total)	5 mg/m³ (respirable) 10 mg/m³ (total)
Titanium Dioxide	13463-67-7	15 mg/m³ TWA (total)	10 mg/m³ TWA	Not Established
Zinc Oxide	1314-13-2	5 mg/m³ (respirable) 15 mg/m³ (total)	2 mg/m³ (respirable) 10 mg/m³ (STEL)	5 mg/m³ (respirable) 10 mg/m³ (STEL) 15 mg/m³ (total)
Aluminum Hydroxide	21645-51-2	5 mg/m³ (respirable) 15 mg/m³ (total)	3 mg/m³ (respirable) 10 mg/m³ (total)	5 mg/m³ (respirable) 10 mg/m³ (total)
Crystalline silica	14808-60-7	0.1 mg/m³TWA (respirable)	0.025 mg/m³ TWA (respirable)	0.05 mg/m³ TWA (respirable)
Ammonium hydroxide	1336-21-6	18 mg/m³ (respirable) 27 mg/m³ (total)	18 mg/m³TWA 27 mg/m³STEL	18 mg/m³ (respirable) 27 mg/m³ (total)
Biocide	Proprietary	Not Established	10 mg/m³ TWA	Not Established

**Engineering Measures/ Controls** 

**General Industrial Hygiene** 

**Environmental Exposure Controls** 

Adequate ventilation systems as needed to control concentrations of airborne

contaminants below applicable threshold limit values.

Use good industrial hygiene practices in handling this material. 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** 

> 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 white

Odor Mild ammonia odor

**Odor Threshold** Not available Not available Ha Not available **Relative Evaporation Rate** Not available **Melting Point Freezing Point** Not available **Flash Point** Not available **Auto-ignition Temperature** Not available Not available **Decomposition Temperature** Not available Flammability (solid, gas)

**Vapor pressure** 17 mm Hg @ 20°C/68°F

Vapor densityNot availableSpecific Gravity1.2 - 1.5VOC<50 g/L</th>

#### **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

#### **SECTION 11 TOXICOLOGICAL INFORMATION**

# **Component Analysis**

COMPONENT	CAS NUMBER	ORAL LD50 (mg/kg)	DERMAL LD50 (mg/kg)	INHALATION LC50 (mg/L)	
Limestone	1317-65-3	>6,450 (rat)	N/A	N/A	
Titanium Dioxide	13463-67-7	> 2,000 (rat)	N/A	> 5.09 (rat) 4 hour	
Zinc Oxide	1314-13-2	>5,000 (rat)	N/A	> 5.7 (rat) 4 hour	
Aluminum hydroxide	21645-51-2	> 2,000 (rat)	N/A	> 2.3 (rat) 4 hour	
Crystalline silica	14808-60-7	>500 (rat)	N/A	N/A	
Ammonium hydroxide	1336-21-6	>350 (rat)	N/A	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.



## **SECTION 11 TOXICOLOGICAL INFORMATION**

### **POTENTIAL HEALTH EFFECTS**

Inhalation

Acute (Immediate) Prolonged inhalation may cause irritation of the nose, throat, and lungs Chronic (Delayed) Prolonged inhalation of high concentrations may damage respiratory system.

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

According to IARC, No significant exposure to titanium dioxide and crystalline silica Carcinogenicity

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

### **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	
Zinc Oxide	1314-13-2	>1.1 (rainbow trout) 96 Hours	>0.098 (Water flea) 48 Hours	N/A	
Ammonium hydroxide	1336-21-6	>15 (w. mosquitofish) 96 Hours	>25.4 (Water flea) 48 Hours	N/A	
Biocide	Proprietary	>14.7 (rainbow trout) 96 Hours	>6.3 - 13 (Water flea) 48 Hours	>0.022 (Algae) 96 Hours	

**Eco toxicity** This product may cause adverse environmental effects if used improperly or release

> to the environment through a spill. Employ best management practices to prevent this material from entering storm sewer systems, waterways or otherwise impacting

plant and animal species.

**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



## **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

Sara 313 Zinc oxide (1314-13-2); Ammonium hydroxide (21645-51-2); Biocide

Sara 311/312 Categories Acute Health Hazard; Chronic Health Hazard

**CERCLA** Ammonium hydroxide 1000 lbs; methyl benzimidazol-2-yl carbamate 10 lbs;

Biocide 100lbs;

**CA Proposition 65** WARNING: This product can expose you to chemicals including crystalline silica,

biocide, benzophenone 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	ИJ	PA	RI
Limestone	1317-65-3	No	Yes	Yes	No	Yes	Yes
Titanium Dioxide	13463-67-7	Yes	Yes	Yes	Yes	Yes	Yes
Zinc Oxide	1314-13-2	Yes	Yes	Yes	Yes	Yes	Yes
Aluminum hydroxide	21645-51-2	No	No	No	No	Yes	No
Crystalline silica	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes
Ammonium hydroxide	1336-21-6	Yes	Yes	No	Yes	Yes	Yes
Biocide	Proprietary	Yes	Yes	Yes	Yes	Yes	Yes

# **SECTION 16 OTHER INFORMATION**

**Preparation Date** April 2020 March 2022 **Revision Date Summary of Changes Branding Update** 

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