

SECTION 1 IDENTIFICATION

Product Name PermaPrime Metal

Product Identifier 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

Acute AquaticToxicity - Category 2
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 - Toxic 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

P332+P313 - If skin irritation or rash occurs: Get medical advice/ attention



SECTION 2 HAZARDS

Response P337+P313 - If eye irritation persists: Get medical advice/ attention.

P370+P378 - In case of fire: Use carbon dioxide (CO2), 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
COMPONENT		
Limestone	1317-65-3	10 - 25
Talc*	14807-96-6	5 - 10
Zinc Phosphate	7779-90-0	1 - 10
Titanium dioxide*	13463-67-7	1 - 5
Diiron trioxide*	1309-37-1	1 - 5
Texanol	25265-77-4	1 - 5
Ammonium hydroxide	1336-21-6	< 1
Crystalline silica*	14808-60-7	< 1
Silicon dioxide*	7361-86-9	< 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

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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

LEL = Lower Explosion Limit

⁼ National Fire Protection Association



SECTION 5 FIRE FIGHTING MEASURES

Fire Hazard

Hazardous Combustion Extinguishing Media

Explosion Hazard

Product is non-combustable

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

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

Containers can burst violently or explode when heated, due to excessive pressure

build-up.

Firefighting instruction

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.

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.

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. 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	ACGIH TLV	NIOSH REL	
Limestone	1317-65-3	5 mg/m³ (respirable) 3 mg/m³ (respirable) 15 mg/m³ (total) 10 mg/m³ (total)		5 mg/m³ (respirable) 15 mg/m³ (total)	
Talc	14807-96-6	20 mppcf TWA	2 mg/m³ TWA	2 mg/m³ TWA	
Zinc Phosphate	7779-90-0	2 mg/m³ TWA 10 mg/m³ STEL	2 mg/m³ (respirable)	2 mg/m³ (respirable)	
Titanium Dioxide	13463-67-7	15 mg/m³ TWA	10 mg/m³ TWA	Not Established	
Diiron troxide	1309-37-1	5 mg/m³ (respirable) 10 mg/m³ (fume)	5 mg/m³ (fume)	5 mg/m³ (respirable) 10 mg/m³ (total)	
Texanol Ester	25265-77-4	50 mg/m³ TWA (total)	Not Established	Not Established	
Ammonium hydroxide	1336-21-6	18 mg/m³ (respirable) 27 mg/m³ (total)	18 mg/m³TWA 27 mg/m³STEL	18 mg/m³ TWA 27 mg/m³ STEL	
Crystalline silica	14808-60-7	0.1 mg/m³TWA (respirable)	0.025 mg/m³ TWA (respirable)	0.05 mg/m³ TWA (respirable)	
Silicon dioxide	7361-86-9	80 mg/m³ (respirable)	6 mg/m³ (respirable)	6 mg/m³ (respirable)	

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.

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

= Threshold Limit Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures



SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid Appearance Red

Odor Mild ammonia odor

Odor ThresholdNot availablepHNot availableRelative Evaporation RateNot available

Boiling Point ~ 212°F similiar to water

Freezing Point

Flash Point

Auto-ignition Temperature

Decomposition Temperature

Plammability (solid, gas)

Not available

Not available

Vapor pressure 17 mm Hg @ 68°F similiar to water

Vapor densityNot availableSpecific Gravity1.2 - 1.5Density11.4 lb/galVOC<65 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)	
Zinc Phosphate	7779-90-0	> 5,000 (rat)	N/A	N/A	
Titanium Dioxide	13463-67-7	> 10,000 (rat)	> 10,000 (rabbit)	>6.82 (rat)/4hrs	
Diiron Trioxide	1309-37-1	> 10,000 (rat)	N/A	N/A	
Texanol Ester	25265-77-4	> 6,500 (rat)	> 15,200 (rabbit)	N/A	
Ammonium hydroxide	1336-21-6	>350 (rat)	N/A	N/A	
Crystalline silica	14808-60-7	> 550 (rat)	N/A	N/A	
Silicon dioxide	7361-86-9	> 3,160 (rat)	> 2,000 (rabbit)	> 2.2 (rat)/4hrs	



SECTION 11 TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Eves

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) This product is not expected to cause sensitization

Inhalation

Acute (Immediate) Irritation to mucus membranes and respiratory tract

Chronic (Delayed) Prolonged inhalation may cause irritation of the nose, throat, and lungs

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 mixture and dust exposure

would not be expected

Teratogenicity

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

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SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity

COMPONENT	CAS NUMBER	FISH LC50 DAPHNA EC50 (mg/L)/96hr (mg/L)/48hr		ALGAE EC50 (mg/L)/72hr	
Zinc Phosphate	7779-90-0	0.14 - 0.26 (rainbow trout) 0.04 - 0.86		0.136 - 0.15	
Titanium dioxide	13463-67-7	1,000 (A. killfish)	>3	N/A	
Texanol	25265-77-4	33 (f. minnow)	147.8	18.4	
Ammonium hydroxide	1336-21-6	15 (w. mosquitofish)	>0.66	>29.2	
Silicon dioxide	7631-86-9	5,000 (zebrafish)	7,600	440	

Eco toxicity

The product contains a substance which is toxic to aquatic organisms and which

may cause long-term adverse effects in the aquatic environment.



SECTION 12 ECOLOGICAL INFORMATION

Persistence & Degradability

No Data

Bioaccumulation Potential

COMPONENT	CAS NUMBER	LOG P _{OW}	TEMPERATURE	SOIL pH
Texanol	25265-77-4	3.47	68°F	N/A

Soil Absorption/Mobility

No Data

Ozone-Depletion Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B)

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.

Empty containers should be taken to an approved waste handling site for recycling or disposal. **Packaging Waste**

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

Hazard Class (TDG & DOT)

Identification Number UN3082

Shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(CONTAINS Trizinc bis (orthophosphate), Ammonia)

Packaging group Ш

SECTION 15 REGULATORY INFORMATION

TSCA Inventory Components are listed **DSL Inventory** Components are listed

Ammonium hydroxide (14808-60-7); Zinc Phosphate (7779-90-0); **Sara 313**

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

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CERCLA Ammonium hydroxide 1000 lbs;

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

and titanium dioxide, which are known to the State of California to cause cancer.

For more information go to www.P65Warnings.ca.gov.



SECTION 15 REGULATORY INFORMATION

Right to Know States

COMPONENT	CAS NUMBER	CA	MA	MN	ИJ	PA	RI
Limestone	1317-65-3	No	Yes	Yes	No	Yes	Yes
Talc	14807-96-6	Yes	Yes	Yes	Yes	Yes	Yes
Titanium dioxide	13463-67-7	No	Yes	Yes	Yes	Yes	Yes
Diiron Trioxide	1309-37-1	Yes	Yes	Yes	Yes	Yes	Yes
Texanol	25265-77-4	No	No	No	No	Yes	No
Ammonium hydroxide	14808-60-7	Yes	Yes	No	Yes	Yes	No
Zinc Phosphate	7779-90-0	Yes	Yes	Yes	Yes	Yes	No
Silicon dioxide	7631-86-9	Yes	Yes	Yes	No	Yes	No
Crystalline silica	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes

SECTION 16 OTHER INFORMATION

Preparation Date Revision Date Summary of Changes

Disclaimer

April 2020 March 2022 Branding Update

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.