



4595 W. Jacquelyn Ave. Fresno, CA 93722 \* Tel: 559-275-9620 \* Fax: 559-275-9629 Toll: 800-279-5604  
www.permadri.net

# MATERIAL SAFETY DATA SHEET

## **PERMADRI~SUPER REFLECTO**

### **Eternalastic White Elastomeric Roof Coating**

#### SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS	OCCUPATIONAL EXPOSURE LIMITS				VAPOR PRESSURE	
	CAS NUMBER	OSHA PEL	ACGIH TLV	OTHER	mm Hg @	TEMP
WATER/WATER	7732-18-5	N/A	N/A	N/A	17.5	68F
LIMESTONE CaCO3/CALCIUM CARBONATE	13117-65-3	5MG/M3	10MG/M3			N/A
TITANIUM OXIDE/TITANIUM DIOXIDE	13463-67-7	10MG/M3	10MG/M3			N/A
ZNO/ZINC OXIDE-NON FERROUS METAL OXIDE	1314-13-2	10/MG/M3	10MG/M3			N/A
ACRYLIC POLYMER/LATEX EMULSION	MIXTURE	N/E	N/E	N/E	17.4	68F
STODDARD SOLVENT/MINERAL SPIRITS	8052-41-3	100PPM	100PPM	N/A	3.4	68F
1,2-ETHANDIOL/ETHYLENE GLYCOL	107-21-1	N/A	50PPM	N/A	0.1	68F
AMMONIUM HYDROXIDE 26DEG/AQUA AMMONIA 26 DEG	1336-21-6	35PPM	25PPM	N/E	755.0	80F

Contains one or more toxic chemicals subject to the reporting requirements of S.A.R.A. Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40CFR 372. A CERCLA Hazardous Substance and Hazardous Air Pollutant.

Generally, the above ingredients that do not possess a vapor pressure are pigments and are only hazardous as airborne particles when the coating begins to degrade.

The HMIS (Hazardous Materials Identification System) codes below are recognized by OSHA. The PERSONAL PROTECTION code is left blank on our MSDSs as it depends on application technique and workplace ventilation. Please read all other sections of this MSDS before deciding on the appropriate protective equipment and beginning work.

H.M.I.S RATING	
Health	1
Flammability	0
Reactivity	0
Protective Equip	

#### SECTION II - PHYSICAL/CHEMICAL CHARACTERISTICS

**BOILING POINT:** 212 Deg F

**VAPOR DENSITY:** HEAVIER THAN AIR

**COATING V.O.C.:** 0.41 LB/GL (49 GR/LT)

**MATERIAL V.O.C.:** 0.22 LB/GL (26 GR/LT)

**SOLUBILITY IN WATER:** Soluble

**APPEARANCE AND ODOR:** White or colored liquid with slight odor.

**SPECIFIC GRAVITY (H2O=1):** 1.4

**EVAPORATION RATE:** SLOWER THAN ETHER



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### SECTION III - FIRE AND EXPLOSION HAZARD DATA

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**FLASH POINT:** None

**METHOD USED:** N/A

**FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER:** N/A

**UPPER:** N/A

**EXTINGUISHING MEDIA:** FOAM, CO<sub>2</sub>, DRY CHEMICAL, WATER FOG

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Polymer film can burn. Avoid breathing fumes of burning dry coating because carbon dioxide/monoxide may be released. Use full protective equipment including self-contained breathing apparatus. Cool closed containers with water.

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat or fire. Material may splatter if exposed to extreme heat. Decomposition of burning material may cause toxic gases to form, which may include carbon dioxide and carbon monoxide.

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### SECTION IV - REACTIVITY DATA

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**STABILITY:** STABLE

#### **CONDITIONS TO AVOID**

Elevated temperatures and build up of vapors. Heat, sparks and open flame. Avoid free fall.

#### **INCOMPATIBILITY (MATERIALS TO AVOID)**

Oxidizers, acids and bases.

#### **HAZARDOUS DECOMPOSITION OR BYPRODUCTS**

Burning or decomposing film may give off carbon dioxide and or carbon monoxide.

**HAZARDOUS POLYMERIZATION: WILL NOT OCCUR**

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### SECTION V – HEALTH HAZARD DATA

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#### **INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Lightheadedness, staggered gait, headache, dizziness and nausea. Irritation to the nose, throat and lungs. Prolonged inhalation may lead to mucous membrane irritation, central nervous system depression, and unconsciousness.

#### **SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Irritation and watering of the eyes.  
Prolonged or repeated contact can cause blurred vision and corneal injury.



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## SECTION V – HEALTH HAZARD DATA ~Continued ~

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### **SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Irritation of skin, redness and possible swelling.

Prolonged or repeated contact can cause dermatitis, defatting. Can be absorbed through skin.

### **INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Amounts ingested incidental to consumer and industrial handling are not likely to cause injury.

Ingestion of large amounts can cause serious injury, including gastrointestinal irritation, nausea, and vomiting.

### **HEALTH HAZARDS (ACUTE AND CHRONIC)**

Breathing difficulty, headache, dizziness, nausea and irritation to the respiratory tract. Causes eye and skin irritation.

Irritation of the digestive tract and nervous system depression.

Prolonged and repeated overexposure may cause permanent brain and or nervous system damage. Can cause dermatitis.

Sanding dust inhalation may cause lung damage. Intentional misuse through inhalation may be harmful or fatal.

### **CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO**

If this product contains ethylene glycol (see section II), oral consumption may produce adverse health effects e.g. kidney damage.

This product may contain trace amounts of crystalline silica, which is considered a hazard by inhalation that can cause silicosis.

Petroleum asphalt may contain detectable amounts of chemicals known to the State of California to cause cancer or reproductive harm.

### **MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

Ingredients in this product are reported to aggravate preexisting eye, skin, respiratory, kidney and liver disorders.

### **EMERGENCY AND FIRST AID PROCEDURES**

Eye contact: Flush with large quantities of water for at least 15 minutes. Seek immediate medical attention.

Inhalation: Remove to fresh air. Administer oxygen if necessary. Seek immediate medical attention.

Skin contact: Wash thoroughly with soap and water. If irritation persists, get medical attention.

Ingestion: Do not induce vomiting. Drink 1 or 2 glasses of water to dilute. Obtain medical attention immediately.

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## SECTION VI – PRECAUTIONS FOR SAFE HANDLING AND USE

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### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Avoid contact and breathing of vapors. Ventilate area. Remove ignition sources. Dike and absorb with absorbent material.

Prevent material from entering sewers or open bodies of water.

### **WASTE DISPOSAL METHOD**

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in an approved facility. Do not incinerate closed containers. Do not drop or throw containers.

Dispose of in accordance with Federal, State and Local regulations.

### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Keep out of reach of children. Do not take internally. Avoid contact with eyes and prolonged contact with skin.

When storing containers, close tightly, keep in upright position, away from fire, open flame and high temperature areas.



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## SECTION VI – PRECAUTIONS FOR SAFE HANDLING AND USE (CONTINUED)

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Transfer only to approved containers with complete and appropriate labeling.  
Remove contaminated clothing and launder before reuse. Remove contaminated shoes and thoroughly dry before reuse. Wash skin thoroughly with soap and water after contact.

### **OTHER PRECAUTIONS**

Warning! If you scrape, sand or remove an old coating, you may release lead dust. Lead is toxic. Exposure to lead dust can cause serious illness, such as brain damage, especially in children. Pregnant women should also avoid exposure. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log onto [www.epa.gov/lead](http://www.epa.gov/lead).

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## SECTION VII - CONTROL MEASURES

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### **RESPIRATORY PROTECTION**

Use only with adequate ventilation. Provide adequate fresh air entry. If not wear the proper respiratory protection.  
If ventilation is inadequate use an organic vapor/particulate respirator approved by NIOSH/MSHA for spray/mist vapors.  
When sanding a dried coating film use a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated.

### **VENTILATION**

Local exhaust preferable. If in confined areas, use mechanical ventilation to keep vapor concentration under permissible TLV and LEL.

### **PROTECTIVE GLOVES**

Waterproof rubber gloves are required during repeated contact.

### **EYE PROTECTION**

Splash resistant and spray mist protection required. Use splash goggles or safety glasses with side shields.

### **OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

Clothing adequate to protect skin. Remove and wash before reuse. Eye wash, safety shower.

### **WORK/HYGIENIC PRACTICES**

Normal industrial hygienic practices should be followed. Wash hands before eating, smoking or using the washroom.

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## SECTION VIII TRANSPORTATION DATA

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### **DOT**

**Non-Bulk** Not Regulated (Water based material Non-bulk - PROTECT FROM FREEZING!)

**Bulk** Not Regulated (Water based material Bulk - PROTECT FROM FREEZING!)

**Note** N/A

**IMDG:** Not Regulated

**IATA:** Not Regulated



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**SECTION IX - STATE ADDENDUM**

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<u>Ingredient</u>	<u>CAS Number</u>	<u>Notes</u>
ETHYLENE GLYCOL	107-21-1	A substance listed by CA under the "Safe Drinking Water and Toxic Enforcement Act of 1989" (Proposition 65).
ETHYLENE GLYCOL	107-21-	A Florida Toxic Substances List material
ETHYLENE GLYCOL	107-21-	A Massachusetts Hazardous Substance List material
ETHYLENE GLYCOL	107-2-1	A Minnesota Hazardous Substance List material
ETHYLENE GLYCOL	107-2-1	A New Jersey RTK Hazardous Substance List material
ETHYLENE GLYCOL	107-1-1	A New York List of Hazardous Substances material
ETHYLENE GLYCOL	10721-1	A Pennsylvania Hazardous Substance List material
ETHYLENE GLYCOL	10-21-1	A Washington State Permissible Exposure for Air Contaminants material
ETHYLENE GLYCOL	7-21-1	A Delaware Air Quality Management List material
CALCIUM CARBONATE	1317-65-3	A Washington State Permissible Exposure for Air Contaminants material
CALCIUM CARBONATE	1317-65-3	A Massachusetts Hazardous Substance List material
CALCIUM CARBONATE	1317-65-3	A Minnesota Hazardous Substance List material
CALCIUM CARBONATE	1317-65-3	A Pennsylvania Hazardous Substance List material
ZINC OXIDE	1314-13-2	A toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40CFR Part 372.
ZINC OXIDE	1314-13-2	A Florida Toxic Substances List material
ZINC OXIDE	1314-13-2	A Massachusetts Hazardous Substance List material
ZINC OXIDE	1314-13-2	A Minnesota Hazardous Substance List material
ZINC OXIDE	1314-13-2	A Pennsylvania Hazardous Substance List material
ZINC OXIDE	1314-13-2	A Washington State Permissible Exposure for Air Contaminants material
TITANIUM DIOXIDE	13463-67-7	A Washington State Permissible Exposure for Air Contaminants material
TITANIUM DIOXIDE	13463-67-7	A Massachusetts Hazardous Substance List material
TITANIUM DIOXIDE	13463-67-7	A Minnesota Hazardous Substance List material
TITANIUM DIOXIDE	13463-67-7	A Pennsylvania Hazardous Substance List material
MINERAL SPIRITS	8052-41-3	A Washington State Permissible Exposure for Air Contaminants material
MINERAL SPIRITS	8052-41-3	A Massachusetts Hazardous Substance List material
MINERAL SPIRITS	8052-41-3	A Minnesota Hazardous Substance List material
MINERAL SPIRITS	8052-41-3	A Pennsylvania Hazardous Substance List material
MINERAL SPIRITS	8052-41-3	A Florida Toxic Substance List material
MINERAL SPIRITS	8052-41-3	A New Jersey RTK Hazardous Substance List material
WATER	7732-18-5	See current Material Safety Data Sheet
ACRYLIC LATEX	MIXTURE	See current Material Safety Data Sheet

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**SECTION X - DISCLAIMER**

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All information contained in this MSDS is based on current technical data believed to be accurate and reliable. Additions of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since these conditions are outside our control, we furnish this MSDS without any express or implied warranties.