



GLOBAL Encasement, Inc.

SAFETY DATA SHEET

R.I.P.™

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: R.I.P.™
Product Use: Rust-Inhibiting Primer
Product Description: Acrylic Copolymer, Water-Base
Manufacturer: GLOBAL Encasement, Inc.
 701 E. Santa Clara St., Ventura, CA 93001
 Tel. # (800) 266-3982 / Fax (800) 520-3291
Contact #s:
Website Address: www.encasement.com

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: Skin corrosion/irritation – Category 2
 Serious eye damage/eye irritation – Category 2A
 Acute toxicity, inhalation – Category 4
 Carcinogenicity – Category 2
 Reproductive toxicity – Category 1A, 1B, 2
 Hazardous to the aquatic environment, acute toxicity – Category 1, 2

Signal Word: Danger

Hazard Statements:

Code	Hazard Statements	Category
H315	Causes skin irritation	2
H319	Causes serious eye irritation	2A
H332	Harmful if inhaled	4
H351	Suspected of causing cancer	2
H360	May damage fertility or the unborn child	1A, 1B
H361	Suspected of damaging fertility or the unborn child	2
H400	Very toxic to aquatic life	1
H401	Toxic to aquatic life	2

Pictograms:



Precautionary statements

Prevention:

Code	Prevention	Category
P201	Obtain special instructions before use.	1A, 1B, 2

P202	Do not handle until all safety precautions have been read and understood.	1A, 1B, 2
P273	Avoid release to the environment.	1, 2
P284	Wear respiratory protection.	1, 2

Response:

Code	Response	Category
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	2
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	2A
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	4
P308+P313	If exposed or concerned: Get medical attention.	1A, 1B, 2
P391	Collect spillage.	1, 2

Storage:

Code	Storage	Category
P405	Store locked up.	1A, 1B, 2,

Disposal:

Code	Disposal	Category
P501	Dispose of contents/container to...in accordance with local/regional/national/international regulation (to be specified).	1,1A,1B, 2, 3, 4

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Material or Component	CAS Number	% by Weight
Titanium dioxide (unbound only)	13463-67-7	10-25
Limestone	1317-65-3	2.5-10
Zinc Oxide	1314-13-2	1.0-2.5
Zinc Phosphate	7779-90-0	2.5-10
Glycol Ether solvent	112-34-5	1.0-2.5
DM Glycol ether	111-77-3	1.0-2.5
Dibutyl phthalate	84-74-2	1.0-2.5
Carbon Black	1333-86-4	0.1-1.0
Additive	Trade Secret	0.1-1.0

The hazards of the listed titanium dioxide, crystalline silica (Quartz) from limestone and ZnO are for their powder unbound form. In the bound form and when used for application as a roof coating for which the products are designed, these ingredients are not hazardous.

SECTION 4: FIRST-AID INFORMATION**Emergency First Aid Procedures and Description:**

Eye Contact: Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from eyeball to ensure thorough rinsing. Get immediate medical attention.

Skin Contact: Itching or burning of the skin. Immediately flush the skin with plenty of water while

removing contaminated clothing and shoes. Get immediate medical attention.

Inhalation: Nasal irritation, headache, dizziness, nausea, vomiting. Heart palpitations, breathing difficulty, cyanosis, tremors, weakness, red flushing of face, irritability. Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation. Get medical attention immediately.

Ingestion: If ingested, do not induce vomiting unless directed to do so by a medical personnel. Get medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use dry chemical, foam or carbon dioxide to extinguish fire.

Specific Hazards Arising from the Chemical: Dangerous when exposed to heat or flame. Will form flammable or explosive mixtures with air at room temperature. Irritating or toxic substances may be emitted upon thermal decomposition. Thermal decomposition products may include oxides of carbon and nitrogen. Vapor or gas may spread to distant ignition sources and flash back. Vapors or gas may accumulate in low areas. Runoff to sewer may cause fire or explosion hazard. Containers may explode in heat of fire. Containers may explode in heat of fire. Vapors may concentrate in confined areas. Liquid will float and may reignite on the surface of water.

Special Protective Action for Firefighters: Water should be used to cool fire-exposed containers, structures and to protect personnel. Use water to dilute spills and flush them away from sources of ignition. Do not flush down sewers or other drainage systems. Exposed firefighters must wear NIOSH approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment.
Keep people away from and upwind of spill/leak.
Material can create slippery conditions.

Environmental Precautions: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Methods of Cleaning Up: Contain spills immediately with inert materials (e.g. sand, earth).
Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid breathing dust, vapor or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Use personal protective equipment in handling and observe personal hygiene after use of the product.

Conditions for Safe Storage: **DO NOT FREEZE.** Keep containers tightly closed in a dry, cool and well-ventilated place.

Storage Period: 12 months

Keep container closed when not in use. Protect from freezing.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

Component	CAS #	Regulation	Type of Listing	Occupational Exposure Limits
Titanium dioxide	13463-67-7	JSOH OELs (05 2009) US ACGIH (2011)	TWA TWA TWA	1 mg/m ³ (Respirable dust) 4 mg/m ³ (Total dust) 10 mg/m ³
Zinc Oxide	1314-13-2	ACGIH OSHA	TWA STEL PEL	2 mg/m ³ 10 mg/m ³ 5 mg/m ³ (Fume, Respirable fraction) 15 mg/m ³ (Total dust)
Calcium Carbonate (in Limestone)	1317-65-3	OSHA NIOSH	TWA TWA	5 mg/m ³ (Respirable fraction) 15 mg/m ³ (Total dust) 10 mg/m ³ (Total dust) 5 mg/m ³ (Respirable dust)
Quartz (in Limestone)	14808-60-7	ACGIH OSHA NIOSH	TWA TWA	0.025 mg/m ³ (Respirable fraction) 0.1 mg/m ³ (Respirable dust) 0.05 mg/m ³ (Respirable dust)
Zinc Phosphate	7779-90-0	ACGIH OSHA ACGIH TLV	TWA PEL STEL	10 mg/m ³ N/E 10 mg/m ³
DM Glycol Ether	111-77-3	ACGIH OSHA ACGIH TLV	TWA PEL STEL	N/E N/E N/E
Glycol Ether Solvent	112-34-5	ACGIH OSHA ACGIH TLV	TWA PEL STEL	10 N/E N/E
Dibutyl phthalate	84-74-2	ACGIH OSHA ACGIH TLV	TWA PEL STEL	5 mg/m ³ N/E 5 mg/m ³
Carbon Black	1333-86-4	ACGIH OSHA ACGIH TLV	TWA PEL STEL	3 mg/m ³ 3.5 mg/m ³ N/E
Additive	Trade Secret	ACGIH OSHA ACGIH TLV	TWA PEL STEL	5 mg/m ³ 5 mg/m ³ 10 mg/m ³

Engineering Controls: Mechanical local exhaust ventilation at point of containment release.

Protective Measures: Employees should wash their hands and face before eating, drinking or using tobacco products. Educate and train employees in the safe use and handling of this product.
EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE AVAILABLE.

Eye/Face Protection: Safety glasses with side-shields.

Skin Protection: Impervious (Neoprene gloves).

Respiratory Protection: Use only with ventilation to keep levels below exposure guidelines reported in this document. If not sure, and/or not able to monitor, use state or federally approved supplied air-respirator. Wear suitable respirator

(MSHA/NIOSH approved or equivalent) where exposure limits are exceeded.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Viscous liquid
Odor:	Slight amine odor
Odor Threshold:	Not Available
pH:	Not Determined
Melting Point/Freezing Point:	0°C (32°F) similar to water
Initial Boiling Point and Boiling Range:	100°C (212°F) similar to water
Flash Point:	Not applicable (water based product), however, solid material will support combustion if water has been evaporated.
Evaporation Rate:	Slower than ether
Flammability (Solid, Gas):	Not Available
Upper/Lower Flammability or Explosive Limits:	Not Available
Vapor Pressure:	22.7 mm Hg at 20°C (68. °F) similar to water
Vapor Density:	Not Available
Relative Density:	10.17#/gal (1.22 g/cc)
Solubility:	Soluble
Partition Coefficient: N-Octanol/Water:	Not Available
Auto-Ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	Not Determined
VOC Content g/l:	100

Note: The above data are typical values and must not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY INFORMATION

Reactivity: Non-reactive.

Chemical Stability: Stable.

Possibility of Hazardous Reactions: None known.

Conditions/Materials to Avoid: Keep from freezing/No known materials to avoid.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition: By Thermal decomposition: carbon monoxide, carbon dioxide, oxides of nitrogen (NOx), other potentially toxic fumes, and dense black smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

Component	Acute Oral	Acute Dermal	Acute Inhalation
Titanium dioxide	LD50 rat >5000 mg/kg	LD50: >5000 mg/kg (Rabbit)	LC50/4h/rat (dust/mist):>6.82 mg/l, 4h (Rat)
Limestone	LD50 rat >6450 mg/kg	Not available	Not available
Zinc Oxide	Not available	Not available	LC50>2500 mg/m ³ (mouse)

Mixture	Not available	Not available	Not available
Zinc Phosphate	LD50 rat -3846 mg/kg	Not available	11.54 mg/l, inh
Glycol Ether Solvent	3305 mg/kg, oral rat	2700 mg/kg, dermal, rabbit	Not available
DM Glycol Ether	7000 mg/kg, oral rat	Not available	Not available
Dibutyl phthalate	Not available	Not available	Not available
Carbon Black	Not available	Not available	Not available
Additive	8000mg/kg, oral, rat	Not available	Not available

Skin/Eye Irritation:

Titanium Dioxide	Rabbit, Exposure Time, 24hrs., Non-Irritating
Limestone & Zinc Oxide	Not available
Mixture	Not available

Mutagenicity:

Titanium Dioxide	Genetic Toxicity in Vitro: Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without) Genetic Toxicity in Vivo: Drosophila SLRL test: negative (Drosophila melanogaster) negative
Limestone & Zinc Oxide	Not available
Mixture	Not available

Carcinogenicity:

Titanium Dioxide (Ti-Pure, DuPont) Rat, Male/Female, inhalation-According to IARC, several rat inhalation and intratracheal installation studies using titanium dioxide have shown increases in benign and malignant lung tumors. Based upon all study results, DuPont scientists conclude that titanium dioxide will not cause lung cancer or chronic respiratory diseases in humans at concentrations experience in the workplace. Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and cancer. Additionally, the IARC working group determined that, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such as in paints."	
Quartz (in Limestone)	ACGIH: A2-suspected human carcinogen NIOSH: Potential occupational carcinogen IARC : Monograph 68 (1997) (Listed under Crystalline Silica inhaled in the form of quartz or Cristobalite) From occupational sources (Group 1-Carcinogenic to humans)
Limestone & Zinc Oxide	Not available
Mixture	Not available

Sensitization:

Titanium dioxide	Dermal: non-sensitizer (Guinea pig, Maximization Test), non-sensitizer (Human, Patch Test) Repeated Dose toxicity: 28 days, Inhalation: NOAEL: 35mg/m3, (Rat)
Quartz (in Limestone)	Not available
Zinc Oxide	Not available
Mixture	Not available

Reproductive toxicity, STOT, Aspiration Hazard: Not available for components and mixture in the products listed.

Other Toxicological Information:

*Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and cancer. Additionally, the IARC working group determined that, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such as in paints."

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Titanium dioxide	Aquatic Toxicity: 96 hrs. LC50: Fathead minnow >1,000mg/l; LC50: >1000 mg/l (Golden Orfe (Leuciscus idus), 48 hours) Acute Toxicity to Aquatic invertebrates: EC50 >3mg/l (Water Flea (Daphnia Magna) Toxicity to Microorganisms : EC50 >10,000 mg/l, (Pseudomas fluorescens, 24 hrs.)
Limestone	Acute and Prolonged Toxicity to Fish: LC50: 56,000 mg/l (Mosquitofish (Gambusia affinis), 48 hours)

Persistence and Degradability, Bioaccumulative Potential, Mobility in Soil: Not available for components and mixtures in the products listed.

SECTION 13: DISPOSAL INFORMATION

Environmental Precautions: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental laws.

Empty Container Precautions: Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

SECTION 14: TRANSPORTATION INFORMATION

UN Number:	Not applicable
UN proper Shipping Name:	Non-Regulated
Transport Hazard Class:	None
Packing Group:	Not applicable
Environmental Hazards:	Unknown
Land Transport (DOT):	Non-Regulated
Sea Transport (IMDG):	Non-Regulated
Air Transport (ICAO/IATA):	Non-Regulated
Special Precautions:	No data available

SECTION 15: REGULATORY INFORMATION

Unites States TSCA Inventory (US.TSCA): All components of this product are in compliance with the inventory listing requirement of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

CERCLA Information (40 CFR Part 302.4): SARA HAZARD CATEGORY: This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

None Known

SARA TITLE III, Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
DM Glycol ether	111-77-3
Glycol ether solvent	112-34-5
Dibutyl phthalate	84-74-2
Zinc Phosphate	7779-90-0
Zinc Oxide	1314-13-2

STATE REGULATIONS: State Right-To-Know: The following materials are non-hazardous but are among the 5 top components in this product:

State	Chemical Name	CAS Number
New Jersey	Water	7732-18-5
	Acrylic Resin	Trade Secret
Pennsylvania	Water	7732-18-5
	Acrylic Resin	Trade Secret
	Iron Oxide	1332-37-2

Workplace Classification

OSHA: This product is considered not hazardous under OSHA Hazard Communication Standard (29CFR 1910.1200).

WHMIS: No information.

Proposition 65: This product does not contain a chemical known to cause cancer or reproductive toxicity.

Component	CAS Number	Authoritative Body	Date Entered
Titanium dioxide (airborne, unbound particles of respirable size)	(none), several substances for single listing	Labor Code (LC)	September 2, 2011
Silica, crystalline (airborne particles of respirable size); 0.5% in Limestone	(none), several substances for single listing	State's Qualified Expert (SQE)	October 1, 1988
Carbon Black	1333-86-4		

SECTION 16: OTHER INFORMATION

Prepared By: GLOBAL Encasement, Inc.
Customer Service Department

Revision Date: Jan 12, 2016
Last Revision Date: July 26, 2014
Version #: 3

This SDS adheres to the standards and regulatory requirements of the United States and has been written under the guidance of the Globally Harmonized System of Classification and Labeling of Chemicals.

Key of Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
DOT	Department of Transportation
EPA	Environmental Protection Agency
GHS	Globally Harmonized System (of Classification and Labeling of Chemicals)
ICAO	International Civil Aviation Organization
IATA	International Air Transportation Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal Concentration STEL Short Term Exposure Limit
LD50	Median Lethal Dose or Lethal Dose, 50 %
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety
OSHA	Occupational Safety and Health Administration
SARA	Superfund Amendments and Reauthorization Act
TRI	Toxic Release Inventory
U.S. (TSCA)	Toxic Substances Control Act
WHMIS	Workplace Hazardous Materials Information System

The information in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. The information relates only to the specific material designated and may not be valid for such material used in combination with or any other material in any process, unless specified in the test.

End of Safety Data Sheet