



GLOBAL Encasement, Inc.

MATERIAL SAFETY DATA SHEET

R.I.P.™

SECTION I – 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
Contact #: Tel. # (800) 266-3982 / Fax (800) 520-3291
Website Address: www.encasement.com

SECTION II – COMPONENT INFORMATION

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 III – HAZARDS IDENTIFICATION

EFFECTS OF OVER EXPOSURE:

Inhalation: Harmful if inhaled, may affect the brain or nervous system, causing dizziness, headache or nausea. May cause nose and throat irritation.

Contact: Causes skin irritation. Causes serious eye irritation.

Notice: Reports have associated repeated and prolonged occupational over exposure to solvents with permanent brain and nervous system damage.

Medical conditions prone to aggravation by exposure: If you have a condition that could be aggravated by exposure to dust or organic vapors, see a physician prior to use.

SECTION IV – FIRST AID INFORMATION

EMERGENCY FIRST AID PROCEDURES: ALWAYS GET MEDICAL ATTENTION. For inhalation, move subject to fresh air. Provide oxygen if breathing is difficult. Use artificial respiration if not breathing. For

eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wash affected skin area with plenty of soap and water. If exposed or concerned: Get medical attention.

SECTION V – FIRE AND EXPLOSION INFORMATION

FLAMMABILITY CLASSIFICATION: Flash Point – 248°F (120°C) (Setaflash)
LEL – 1000.0% UEL – 1%
OSHA – COMBUSTIBLE LIQUID CLASS IIIA
DOT – NOT REGULATED

EXTINGUISHING MEDIA: Use dry chemical, foam or carbon dioxide to extinguish fire.

UNUSUAL FIRE & EXPLOSION HAZARDS: This is a water-based product however it does contain small amounts of volatile organic compounds (See Section II). Vapors are heavier than air and will accumulate. Vapors will form explosive concentrations with air. Vapors travel long distances and will flashback.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area of unprotected personnel. Use a NIOSH approved self-contained breathing unit and complete body protection. Cool surrounding containers with water in case of fire exposure.

SECTION VI – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Evacuate the area of unprotected personnel. Follow safe handling and use guidelines in Section VII. Contain and soak up residual with an absorbent (clay or sand). Take up absorbent material and seal tightly for proper disposal.

SECTION VII – HANDLING AND STORAGE INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid eye, skin and clothing contact. Keep hands away from face. Avoid breathing mists. Use with adequate ventilation. Keep container closed when not in use. Wash thoroughly after handling. Change clothing if exposed to heavy mist or spillage; clothing should be laundered before reuse.

PRECAUTIONS TO BE TAKEN IN STORING: Keep away from heat, sparks, open flame, and strong oxidizing agents. Keep containers closed. Store in a cool, dry place with adequate ventilation. If pouring or transferring materials, ground all containers and tools. Protect from freezing.

KEEP AWAY FROM CHILDREN.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use only with ventilation to keep vapor levels below exposure guidelines (See Section II). User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor, use OSHA approved air-purifying respirator.

VENTILATION: Use explosion-proof ventilation when required to keep below health exposure guidelines and Lower Explosive Limit (LEL).

SKIN AND EYE PROTECTION: Recommend impervious gloves, clothing and safety glasses with side shields or chemical goggles to avoid skin and eye contact. If material penetrates to skin, change gloves and clothing.

HYGIENIC PRACTICES: Wash with soap and water before eating, drinking, or using toilet facilities.

Use of a hand cleaner is recommended. Launder protective clothing before reuse. Leather shoes can absorb and pass through hazardous materials. Check shoes carefully after soaking before reuse.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Viscous liquid	Odor:	Slight amine odor
Color:	Color varies	Lbs/Gal:	10.24
Flash Point:	N/A	pH:	Not Determined
Specific Gravity (water = 1.0):	1.23	Viscosity (KU):	Not Determined
		VOC, grams/liter:	100

SECTION X – STABILITY AND REACTIVITY INFORMATION

STABILITY: Stable under normal storage conditions.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and unidentified organic compounds.
Consider all smoke and fumes from burning materials as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe.

CONDITIONS TO AVOID: Heat, sparks, and open flames.

INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

SECTION XI – TOXICOLOGICAL INFORMATION (will only print available data)

Primary Route(s) of Entry: Inhalation, dermal, ingestion.

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)

SECTION XII – 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 XIII – DISPOSAL INFORMATION

WASTE DISPOSAL METHOD: Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Incinerate the solids and contaminated diking material at a permitted facility according to current federal, state and local regulations. Refer to section XV for more information.

SECTION XIV – TRANSPORTATION INFORMATION

UN Number: Not applicable
UN proper Shipping Name: Non-Regulated
Transport Hazard Class: None
Land Transport (DOT): Non-Regulated

SECTION XV – REGULATORY INFORMATION

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

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

SECTION XVI – OTHER INFORMATION

OTHER PRECAUTIONS: Do not weld, heat, cut or drill on full or empty containers.

The information contained herein is accurate, to the best of our knowledge and belief. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

Information complies with New Jersey DOH Right-To-Know Labeling Law (N.J.A.C. 8:59 –5.1 & 5.2)