SAFETY DATA SHEET

Section 1. Identification

Product Name: BD Zinc Rich Primer (B-Side)

Bridge Preservation, LLC
686 S. Adams Street
Kansas City, KS 66105
913.912.3305

Spill, leak, fire, exposure, or accident, call
CHEMTREC day or night
Domestic North America **800.424.9300**
International **703.527.3887**
e-mail: ehs@versaflex.com

Section 2. Hazards Identification

Emergency Overview: High airborne levels of dust may cause irritation to eyes or dry skin. Dust and fumes can cause nausea, gastric pain and irritation to the upper respiratory tract.

GHS Ratings:

GHS Hazards	GHS Precautions
There are no GHS ratings that apply to this product at this time.	

Acute Health Effects:
Excessive exposure to high concentrations of dust may cause irritation to the eyes, skin and mucous membranes of the upper respiratory tracts.

Inhalation: Can irritate respiratory system. Avoid breathing dust.

Eye: Dusts may cause irritation to the eye. Scratching of cornea can occur if eye is rubbed.

Ingestion: Ingestion of harmful amounts of this product as distributed is unlikely due to its solid insoluble form. Ingestion of excessive amounts of dust may cause nausea and vomiting, gastric pain and irritation to the upper respiratory tract.

Chronic Health Effects: No known chronic hazards.

Section 3. Composites/Information on Ingredients

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Zinc 7440-66-6 90 to 100%	OELs not established	OELs not established	
Zinc oxide 1314-13-2 5 to 10%	PELs - 5mg/m3 TWA (fume) PELs - 15 mg/m3 TWA (total dust) PELs - 5 mg/m3 TWA (respirable fraction)	TLV - 10 mg/m3 STEL (respirable fraction) TLV - 2 mg/m3 TWA (respirable fraction)	

Section 4. First-aid Measures

Move exposed person to fresh air. If breathing is labored, oxygen should be administered by qualified personnel. Consult a physician if necessary.

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

After contact with skin, wash soap and water. If irritation persists, consult a physician.
Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Provided the patient is conscious, wash out mouth with water. Dilute by drinking large quantities of water. Get medical attention if discomfort persists.

Section 5. Fire-fighting Measures

Dry Zinc Dust will not ignite spontaneously, but once ignited, may burn readily in air. DO NOT SPREAD MATERIAL. Smother and allow fire to go out.

Avoid contact with water. Bulk dust in contact with water or damp air evolves hydrogen. The heat produced during this reaction could ignite the hydrogen. An explosive condition may exist if this happens in a confined space. Dry dust forms explosive mixtures with air, if ignited.

Wear suitable respirator if bulk dusty conditions exceed PEL levels listed in Section 8. Wear self-contained breathing apparatus.

Section 6. Accidental Release Measures

Clean up using dustless methods to minimize generation and distribution of respirable particles. Avoid using compressed air. Avoid material entering sewers, drains or surface waters.

Section 7. Handling and Storage

Put on appropriate personal protective equipment (see Section 8).

Handle the product in accordance with good industrial hygiene and safety practices. Do not breathe dust. Use proper work practices and adequate ventilation with dust collection to maintain airborne levels of crystalline silica to below PEL. Wear appropriate respirator when ventilation is inadequate.

Material is to be stored in accordance with local regulations. Store in original container protected from moisture, keeping material in a dry and well-ventilated area. Keep container tightly closed and sealed until ready for use.

Do not store in unlabeled containers.

Use appropriate containment to avoid environmental contamination.

Section 8. Exposure Controls/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Zinc 7440-66-6	OELs not established	OELs not established	
Zinc oxide 1314-13-2	PELs - 5mg/m3 TWA (fume) PELs - 15 mg/m3 TWA (total dust) PELs - 5 mg/m3 TWA (respirable fraction)	TLV - 10 mg/m3 STEL (respirable fraction) TLV - 2 mg/m3 TWA (respirable fraction)	

Engineering Controls: Use adequate ventilation to reduce the level of respirable dust to below the PEL.

Ventilation: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Protective Gear: In case of inadequate ventilation, wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Good personal hygiene practices should be followed to include cleansing of exposed skin with soap and water and laundering work clothing.

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Section 9. Physical and Chemical Properties

Appearance: Gray	**Odor:** No Odor
Vapor Pressure: No Data	**Odor threshold:** No Data
pH: No Data	**Melting point:** No Data
Freezing point: No Data	**Flash point:** N/A
Evaporation rate: No Data	**Flammability:** No Data
Explosive Limits: No Data	**Vapor pressure:** No Data
Vapor Density: No Data	**Specific Gravity** 7.1
Solubility: No Data	**Partition coefficient (n-octanol/water):** No Data
Boiling range: No Data	**Autoignition temperature:** No Data
Decomposition temperature: No Data	**Viscosity:** N/A
% Weight Volatile (VOC) 0.00	

Section 10. Stability and Reactivity

Chemical Stability: Stable at room temperature. No specific test data related to reactivity is available for this product or its ingredients.
Hazardous reactions: None known. Stable under normal conditions.

Chemical Incompatibility (Materials to Avoid): Avoid contact with water. Bulk dust in contact with water or damp air evolves hydrogen. The heat produced during this reaction could ignite the hydrogen. An explosive condition may exist if this happens in a confined space. Dry dust forms explosive mixtures with air, if ignited.
Hazardous Decomposition Products: None known.

Section 11. Toxicological Information

Routes of Entry

Ingestion

Target Organs

No Data

Effects of Overexposure

Carcinogenicity

CAS Number	Description	% Weight	Carcinogen Rating
None			No Data

Section 12. Ecological Information

Only component information is listed, if any. No testing has been performed on this mixture as it relates to ecological impact.

Component Ecotoxicity

Zinc	96 Hr EC50 Pseudokirchneriella subcapitata: 0.11 - 0.271 mg/L [static]; 72 Hr EC50 Pseudokirchneriella subcapitata: 0.09 - 0.125 mg/L [static]; 96 Hr LC50 Pimephales promelas: 2.16 - 3.05 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 0.211 - 0.269 mg/L [semi-static]; 96 Hr LC50 Pimephales promelas: 2.66 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 30 mg/L; 96 Hr LC50 Cyprinus carpio: 0.45 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: 7.8 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 3.5 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 0.24 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0.59 mg/L [semi-static]; 96 Hr LC50 Oncorhynchus mykiss: 0.41 mg/L [static]; 48 Hr EC50 Daphnia magna: 0.139 - 0.908 mg/L [Static]

Section 13. Disposal Considerations

The generation of waste should be avoided or minimized by using excess product in an alternate, beneficial application wherever possible.

Empty containers may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14. Transport Information

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT	Not Regulated			
IATA	Not Regulated			
IMDG	Not Regulated			

Section 15. Regulatory Information

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING!
This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- None

SARA Title III Section 313 Reportable Substances
If listed below, components are subject to the reporting requirements of Section 313 of Title II of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372:

7440-66-6 Zinc 90 to 100 %

Toxic Substances Control Act (TSCA)
If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None

WHMIS Symbol(s)

Section 16. Other Information

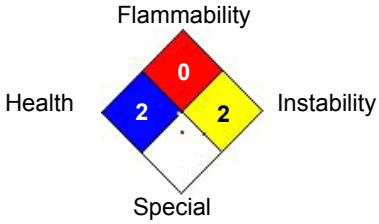
The customer is responsible for determining the proper PPE code for this material within their respective process.

Hazardous Material Information System (HMIS)

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	2
PERSONAL PROTECTION	X

HMIS & NFPA Hazard Rating Legend
*** = Chronic Health Hazard**
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

National Fire Protection Association (NFPA)



Date Prepared: 3/10/2016
Date revised: 2016-03-10

Reviewer Revision 0

Notice to reader:
While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PUPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.