


# Safety Data Sheet

## Zinc Primer

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	<b>Zinc Primer</b>
<b>Other Means of Identification</b>	<i>Not Applicable</i>
<b>Recommended Use</b>	Industrial use. Coatings, paints,
<b>Restrictions on Use</b>	<i>Not Applicable</i>
<b>Initial Supplier Identifier</b>	<b>Emerald Coatings</b> 5914 Wellington Rd., 123 Palmerston, ON, Canada, N0G 2P0 Telephone: 1 (855) 317-4867
<b>Emergency Telephone Number</b>	Toll Free: 1-855-317-4867 (8am – 4pm EST)

### SECTION 2. HAZARD IDENTIFICATION

<b>GHS Classification</b>	<b>SKIN SENSITIZATION – CATEGORY 1</b> <b>SERIOUS EYE DAMAGE/IRRITATION – CATEGORY 2A</b>
<b>Label Elements Pictograms</b>	
<b>Signal Word</b>	<b>WARNING</b>
<b>Hazard Statements</b>	H317 – May cause an allergic skin reaction. H319 – Causes serious eye irritation.
<b>Precautionary Statements</b>	
<b>Prevention:</b>	P261 – Avoid breathing dust. P264 – Wash skin thoroughly after handling. P272 – Contaminated work clothing should not be allowed out of the workplace. P280 – Wear protective gloves/eye protection/face protection.
<b>Response:</b>	P302 + P352 – IF ON SKIN: Wash with plenty of water. P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention. P362 + P364 – Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. P337 + P313 – If eye irritation persists: Get medical advice/attention.
<b>Storage:</b>	<i>Not Applicable</i>
<b>Disposal:</b>	P501 – Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Other Hazards</b>	May form combustible dust concentrations in air.
<b>NOTES</b>	<i>Not Applicable</i>

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration*	Common name / Synonyms
Zinc	7440-66-6	30 – 60%	<i>Not Applicable</i>
Poly(Bisphenol A-co-epichlorohydrin) glycidyl end-capped	25036-25-3	10 – 30%	<i>Not Applicable</i>
Ingredients which are non-hazardous or below reporting requirements.	<i>Not Applicable</i>	Balance	<i>Not Applicable</i>

<b>Notes</b>	*Actual concentration withheld to protect confidentiality.
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## SECTION 4. FIRST-AID MEASURES

<b>Inhalation</b>	Remove victim to fresh air. If breathing is difficult, seek medical attention.
<b>Skin Contact</b>	Remove contaminated clothing and shoes. Rinse with soap and water. Do not use solvents or thinners. Seek medical attention.
<b>Eye Contact</b>	Immediately flush contaminated eye(s) with lukewarm, gently running water for at least 15 minutes while holding the eyelid(s) open. Take care not to rinse contaminated water into a non-affected eye. Remove contact lenses if applicable and easy to do so. Continue rinsing. Seek medical attention.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. Seek medical attention immediately.
<b>Most Important Symptoms and Effects, Acute and Delayed</b>	Acute: INHALATION: May be irritating to nose, throat, lungs when present above concentration limits. SKIN CONTACT: May cause allergic reaction. Symptoms include redness, irritation, itching. EYE CONTACT: Irritating to the eyes. May cause redness, conjunctivitis, and/or tearing. INGESTION: No known significant effects or hazards. Chronic: <i>Not available</i>
<b>Immediate Medical Attention and Special Treatment</b>	Treat symptomatically.

## SECTION 5. FIRE-FIGHTING MEASURES

<b>Extinguishing Media</b>	
<b>Suitable Extinguishing Media</b>	Use dry chemical powder.
<b>Unsuitable Extinguishing Media</b>	Do not use water jet.
<b>Hazardous Combustion Products</b>	May produce oxides of carbon.
<b>Specific Hazards Arising from the Product</b>	Dusts may form explosive mixtures with air.
<b>Special Protective Equipment and Precautions for Fire-Fighters</b>	Wear SCBA for firefighting if necessary. Use water to keep fire-exposed containers cool. Move containers away from fire is safe to do so.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions, Protective Equipment, and Emergency Procedures</b>	Evacuate unnecessary personnel from spill area. Wear appropriate personal protective equipment (See Section 8). Do not touch or walk through spilled product. Ventilate area. Stop or reduce leak if safe to do so. Remove all ignition sources. No flares, smoking, or flames in hazard area. Do not breathe dust. Wear respirator if ventilation is inadequate. Prevent product from entering any sewers or waterways. Inform relevant authorities of potential environmental contamination if required.
<b>Methods for Containment and Cleaning Up</b>	Implement spill control plan. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

## SECTION 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Avoid breathing dust. Do not ingest. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. Use general industrial hygiene practices.
<b>Conditions for Safe Storage</b>	Store in a segregated area in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready to use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH® TLV®		NIOSH REL	
	Zinc	TWA – 2 mg/m <sup>3</sup>	STEL – 10 mg/m <sup>3</sup>	TWA – 5 mg/m <sup>3</sup>
<b>Notes</b>	*Exposure limits may vary from time to time and from one jurisdiction to another. Check with local regulatory agency for the exposure limits in your area. STEL = Short-term exposure limit; TWA = Time weighted average; TLV = Threshold limit value; REL = Recommended exposure limit			

<b>Appropriate Engineering Controls</b>	Use general or local exhaust ventilation to maintain exposure below the exposure limits. Ensure proper ventilation if dust, mist, vapour is created during use. Use explosion-proof ventilation equipment.
<b>Individual Protection Measures</b>	
<b>Eye/Face Protection</b>	Eye protection is required. Chemical safety goggles are recommended. The wearing of contact lenses is not recommended.
<b>Skin Protection</b>	Wear chemical-resistant impervious gloves fabricated from butyl rubber. Avoid use of leather and wool. Protect skin by use of long-sleeved coveralls.
<b>Respiratory Protection</b>	Not normally required for most uses. If use produces dusts and risk assessment indicates it is necessary, use an approved NIOSH half-face or full-face respirator.

<b>Other</b>	Have a safety shower and eye wash station readily available in the immediate work area. Use proper industrial hygiene practices. Remove contaminated clothing and do not allow contaminated clothing out of the workplace.
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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Solid.	<b>Relative Density (Water = 1)</b>	2.658
<b>Odour</b>	<i>Not Available</i>	<b>Solubility in Water</b>	Insoluble
<b>Odour Threshold</b>	<i>Not Available</i>	<b>Solubility in Other Liquids</b>	<i>Not Available</i>
<b>pH</b>	<i>Not Available</i>	<b>Partition Coefficient, n-Octanol / Water</b>	<i>Not Available</i>
<b>Melting Point and Freezing Point</b>	<i>Not Available</i>	<b>Auto-ignition Temperature</b>	<i>Not Available</i>
<b>Initial Boiling Point and Boiling Range</b>	<i>Not Available</i>	<b>Decomposition Temperature</b>	<i>Not Available</i>
<b>Flash Point</b>	None to 100°C	<b>Viscosity</b>	<i>Not Available</i>
<b>Evaporation Rate</b>	<i>Not Available</i>	<b>Flammability (solid, gas)</b>	<i>Not Available</i>
<b>Vapour Density (air = 1)</b>	<i>Not Available</i>	<b>Upper and Lower Flammability or Explosive Limit</b>	<i>Not Applicable</i>
<b>Vapour Pressure</b>	<i>Not Available</i>	<b>Sensitivity to Static/Impact</b>	Not sensitive

## SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No data available.
<b>Chemical Stability</b>	Stable under normal storage conditions.
<b>Possibility of Hazardous Reactions</b>	Hazardous polymerization will not occur.
<b>Conditions to Avoid</b>	Avoid generation of dusts and high temperatures.
<b>Incompatible Materials</b>	Keep away from oxidizing agents, strong acids and bases.
<b>Hazardous Decomposition Products</b>	Upon thermal decomposition the product may liberate oxides of carbon.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Inhalation    Skin contact    Eye contact    Ingestion

<b>Acute Toxicity</b>	
<b>LC50 (inhalation)</b>	Poly(Bisphenol A-co-epichlorohydrin) glycidyl end-capped: <i>Not Available</i> Zinc: 5.41 mg/L (Rat)
<b>LD50 (oral)</b>	Poly(Bisphenol A-co-epichlorohydrin) glycidyl end-capped: >2000 mg/kg (Rat) Zinc: >2000 mg/kg (Rat)
<b>LD50 (dermal)</b>	Poly(Bisphenol A-co-epichlorohydrin) glycidyl end-capped: >2000 mg/kg (Rabbit) Zinc: <i>Not Available</i>
<b>Notes</b>	Not expected to be acutely toxic.
<b>Skin Corrosion / Irritation</b>	May be mildly irritating.
<b>Serious Eye Damage / Irritation</b>	Causes serious eye irritation.

<b>Inhalation</b>	May be slightly irritating to nose and throat.
<b>STOT (Specific Target Organ Toxicity) - Single Exposure</b>	Not expected.
<b>Aspiration Hazard</b>	Not reported.
<b>STOT (Specific Target Organ Toxicity) - Repeated Exposure</b>	Not reported.
<b>Respiratory and/or Skin Sensitization</b>	Skin sensitizer. May cause allergic skin reaction.
<b>Carcinogenicity</b>	IARC reports inadequate evidence for classification as human carcinogen.
<b>Reproductive Toxicity</b>	
<b>Development of Offspring</b>	Not reported.
<b>Sexual Function and Fertility</b>	Not reported.
<b>Effects on or via Lactation</b>	Not reported.
<b>Germ Cell Mutagenicity</b>	Not expected to be a mutagen.
<b>Interactive Effects</b>	Not reported.

## SECTION 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Unknown ecotoxicity for mixture.		
	<b>Ingredient</b>	<b>Species</b>	<b>LC/EC<sub>50</sub></b>
	Zinc	<i>Not Available</i>	<i>Not Available</i>
	Poly(Bisphenol A-co-epichlorohydrin) glycidyl end-capped	<i>Not Available</i>	<i>Not Available</i>
<b>Persistence and Degradability</b>	<i>Not Available</i>		
<b>Bioaccumulative Potential</b>	<i>Not Available</i>		
<b>Mobility in Soil</b>	<i>Not Available</i>		
<b>Other Adverse Effects</b>	<i>Not Available</i>		

## SECTION 13. DISPOSAL CONSIDERATIONS

<b>Disposal Methods</b>	Canadian Environmental Protection Act: All ingredients are listed in the DSL. Dispose of in accordance with all federal, provincial/state, and local regulations. Consult with your local supplier for additional information. For disposal of unused or waste material, check with local, state and federal environmental agencies.
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## SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Technical Name (for N.O.S. entry)	Transport Hazard Class(es)	Packing Group
<b>Canadian TDG Regulations*</b>					
<b>49 CFR/DOT*</b>					
<b>IATA Regulations*</b>					

<b>IMDG Code*</b>					
*Not Regulated for Transport.					

## SECTION 15. REGULATORY INFORMATION

<b>Safety, Health and Environmental Regulations</b>	Canadian Environmental Protection Act (CEPA): All components of this product are on the Canadian DSL. United States Inventory (TSCA): All components are listed or exempt.
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## SECTION 16. OTHER INFORMATION

<b>Date of Creation</b>	February 26, 2019
<b>Date of Latest Revision</b>	<i>Not Applicable</i>
<b>Notes</b>	Health Material Information System (HMIS): Health: 1 Flammability: 0 Reactivity: 0 Physical Hazards: E HMIS Ratings: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe; * = Chronic Effects.
<b>Disclaimer</b>	This Safety Data Sheet (SDS) was prepared by iHazmat Regulatory Ltd., ( <a href="http://www.iHazmat.com">www.iHazmat.com</a> ) using information and classifications provided by Emerald Coatings. All information in this SDS is offered for your consideration and guidance when working with this product and is accurate to the best of our knowledge. No guarantee can be made that the hazards described herein are the only hazards that exist.

**\*SDS compliant with WHMIS 2015**