

101 North Main Street • Clearfield • Utah 84015 / P.O. Box 750 • Clearfield • Utah 84089 • USA • (801)773-4631 • (800)453-2406 • Fax (801)773-4633
www.AlbionMinerals.com

Product Name: Metalosate® ZMI™

Revision Date: 20-Aug-2015

Product Number: 07327

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION			
Product Name	Metalosate® ZMI™		
Product Description	Mineral foliar supplement		
Manufacturer's Name	Albion Laboratories, Inc.		
Address	101 North Main Street, Clearfield, Utah 84015		
Emergency Telephone Number	(801) 773-4631		
Telephone Number for Information	(801) 773-4631		
2. HAZARDS IDENTIFICATION			
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)	Aquatic Chronic 3, H412		
Hazard statement (s)	H412- Harmful to aquatic life with long lasting effects		
Precautionary statement(s)	P501-Dispose of contents in accordance with local or national regulations		
Hazards not otherwise classified (HNOC) or not covered by GHS	None		
	3% of mixture consists of ingredient(s) of unknown acute toxicity and 5% of unknown environmental toxicity		
3.COMPOSITION / INFORMATION ON INGREDIENTS			
Proprietary Blend of	Iron amino acid chelate, manganese amino acid chelate, molybdenum (derived from ammonium molybdate)		
	Hazardous Component	Classification	Concentration Range
	Zinc amino acid chelate	Aquatic Chronic 3, H412	0.20%
Approx. % by WT	100%		
4. FIRST AID MEASURES			
Eyes	Irrigate thoroughly with water for at least 10 minutes. If any discomfort persists obtain medical attention		
Skin	Wash skin thoroughly with water. Remove contaminated clothing and wash before reuse. In severe cases obtain medical attention.		
Ingestion	Wash out mouth thoroughly with water. Obtain medical attention.		
Inhalation	Remove from exposure, rest and keep warm. In severe cases obtain medical attention.		
5. FIRE FIGHTING MEASURES			
General Hazard	No specific hazard		
Extinguishing Media	Water spray, foam, dry chemical, or carbon dioxide		
6. ACCIDENTAL RELEASE MEASURES			
Small Spill	Wear appropriate protective clothing. Sweep up spillage and wash affected area.		
Large Spill	Vacuum or sweep up material and place in a disposal container. Dispose of in a manner according to local regulations.		
7. HANDLING AND STORAGE			
Handling	Wear protective clothing and wash areas of contact after handling.		
Storage	Store in a cool, dry place in original container. Do not leave product in open containers.		
Work Hygienic Practices	Good general ventilation should be sufficient to control airborne levels.		
8. EXPOSURE CONTROLS / PERSONAL PROTECTION			
Eyes and Face	Wear appropriate clothing and eye protection.		
Respiratory	Fine dust respirator to standard N95 or equivalent.		

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Protective Clothing	Wear appropriate clothing.
9. PHYSICAL AND CHEMICAL PROPERTIES	
Physical State	Liquid
Odor	Proteinaceous
Appearance	Liquid
Color	Dark brown
pH	3.0 - 5.0 (1% in distilled water)
Boiling Point	Not available
Freezing Point	Not available
Melting Point	Not available
Density	1.15 – 1.25 g/mL
Solubility	Water soluble
10. STABILITY AND REACTIVITY	
Stable	Yes
Hazardous Polymerization	No
Hazardous Decomposition Products	Metal oxides and carbon dioxide are possible decomposition products.
11. TOXICOLOGICAL INFORMATION	
Target Organs	No target organs are known
Carcinogenicity	IARC: None of the materials used in this product contain chemicals on the IARC list. NTP: None of the materials used in this product contain chemicals on the NTP list.
General Comments	The suppliers of this product have no evidence to suggest that this product has carcinogenic or mutagenic or teratogenic effects.
12. ECOLOGICAL INFORMATION	
General Comments	Quantitative data on the ecological effects of this product are not available. Care should be taken to avoid entry of any chemical product into natural watercourses. No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.
13. DISPOSAL CONSIDERATIONS	
Disposal Consideration	Chemical residues are classified as special waste and as such are covered by regulations which vary in accordance to location. Contact your local waste disposal authority for advice or pass to a chemical disposal company
14. TRANSPORTATION INFORMATION	
UN-Number DOT, ADR, AND, IATA IMDG	None Non-Regulated Material Not Regulated
UN proper shipping name DOT, ADR, AND, IMDG, IATA	Not Regulated for Transportation Non-Regulated Material
Transport Hazard class(es) DOT, ADR, AND, IMDG, IATA class	Not-Regulated Non-Regulated Material
Packing group DOT,ADR,IMDG,IATA	Non-Regulated Material
Environmental hazards Marine pollutant	No

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<p>Transport bulk according to Annex II of MARPOL73/78 and IBC Code</p>	<p>Not applicable</p>
<p>15. REGULATORY INFORMATION</p>	
<p>General Comments</p>	<p>This product is not regulated by any known government agency as hazardous.</p>
<p>16. OTHER INFORMATION</p>	
<p>Manufacture Disclaimer</p>	<p>The information supplied on this sheet is to the best of our knowledge accurate at the time of preparation. It does not relieve the user of this product of any responsibility to comply with local, national, or international laws relating to the handling or use of this product.</p> <p>The suppliers do not accept responsibility for any claims resulting from the misuse of this product or failure to comply with the information stated within.</p>