

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Name: Moss-B-Ware Identifier: EPA REG. No. 10699-1	Product ID #: PIN:
Manufacturer: Matson, LLC. PO Box 1820 North Bend, WA 98045	Emergency Telephone Number: 1-800-858-7378
Proper Shipping Name: Agricultural Insecticide, NOI	
NFPA Rating: Health = 2; Fire = 0; Reactivity = 0	

Section 2 – Composition/Information on Ingredients

Hazardous Components	Percent in Product	CAS #	OSHA PEL	ACGIH TLV
Zinc Sulfate Monohydrate	99	7446-19-7	Not Determined	Not Determined

Section 3 - Health Hazard Data

Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
<p>Eye Contact: May cause irritation. Skin Contact: Skin contact may cause irritation. Inhalation: Avoid breathing dusts. Can cause respiratory distress, dizziness, low blood pressure. Ingestion: This product contains zinc sulfate monohydrate. May cause burns to digestive tract, fever, nausea, kidney and liver damage and convulsions. Human toxic dose lo : 10 to 30 g = >140 mg/kg. Non-Human Toxicity Values: LD50 Rat oral 2949 mg/kg LD50 Mouse oral 57 mg/kg Ecotoxicity Values: LC50 Salmo gairdneri (rainbow trout) 4.6 ppm/96 hr/fresh water</p>			
Carcinogenicity: No Data.	NTP: No Data	IARC Monographs: None	OSHA Regulated: See Section 2
<p>Signs and Symptoms of Exposure: Ingestion can produce gastroenteritis. Symptoms are characterized by intense gastric and substernal pain, violent vomiting, diarrhea, shock, circulatory collapse.</p>			
<p>Preexisting Conditions Aggravated by Exposure: Irritation of skin or eye, gastrointestinal disorders.</p>			

Emergency and First Aid Procedures:

If Swallowed: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice.

If On Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If In Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Note to Physician: Acute Lung Injury: Maintain ventilation and oxygenation and evaluate with frequent arterial blood gas or pulse oximetry monitoring. Early use of PEEP and mechanical ventilation may be needed. Ingestion Supportive Care: Maintain hydration and observe for metabolic acidosis, hypocalcemic tetany, anuria, liver damage, gastric perforation, and pyloric stenosis. (HSDB)

Section 4 - Fire and Explosion Hazard Data

Flammability	No	Special Fire Fighting Methods:	Avoid fumes
Conditions of Flammability: Burns with difficulty.			
Extinguishing Media: CO2, Foam, Dry chemical, Water			
Flash Point	Not Applicable	Upper Flammable Limit	Not Applicable
Unusual Fire Hazards	Not Applicable	Lower Flammable Limit	Not Applicable
Auto ignition Temperature (°C)	Not Applicable	Explosion Data	Not Applicable
Sensitivity to Impact	Not Applicable	Sensitivity to Static Discharge	Not Applicable

Section 5 - Physical/Chemical Characteristics

Physical State

powder

Density @ 25 deg C

3.8 g/cu cm

Vapor Pressure (mm Hg @ 25C)

Not Available

Melting Point (500 C)

decomposes

Vapor Density (AIR = 1)

Not Available

Evaporation Rate

Not Available

Boiling Point

Not Available

Odor Threshold (mg/m3)

Not Available

pH

5@10%
Oct./H2O partition coeff.
Not Available

Freezing point
Not Available
Solubility in Water (20 C)

101 g/100 g H2O

Appearance and Odor:
White
Molecular Weight
179.46

Section 6 - Reactivity Data

Conditions to Avoid: Heat. Fire may produce irritating, corrosive and/or toxic gases.			
Stability	Stable	Hazardous Polymerization	Will Not Occur
Incompatibility (Materials to Avoid): Corrosives.			
Hazardous Decomposition or Byproducts: Emits toxic fumes of /sulfur oxides & zinc oxide with heat.			

Section 7 – Personal Protection

Respiratory Protection: If vapors become irritating use NIOSH approved respirator.	
Protective Gloves: Impervious gloves	Eye Protection Avoid eye contact. Use safety glasses.
Other Protective Clothing: Overalls or long pants and shirts as needed. Wash after use.	

Section 8 – Accidental Release Measures

Spill Response: Sweep, don't wash. Wet floors become slippery. Take care not to generate vapors during sweeping. Wear protective gloves, eyewear, respirator and clothing. Use care not to contaminate area-use appropriate labeled containers. Follow appropriate OSHA (29 CFR 1910.120) State and local regulations.
Waste Disposal Method: Follow Federal, State and local laws. Do not reuse containers.

Section 9 – Special Precautions / Handling

Storage Precautions: Store in cool, dry, locked area without direct sunlight in original container. Prevent exposure to children or pets. Avoid contamination of feed, seed, fertilizers and foodstuffs.
Work/Hygienic Practices: Avoid contact with eyes, skin or clothing. Avoid breathing dusts. Clean contaminated clothing before reuse.

Section 10-Transportation Requirements

DOT Classification:
Not Regulated in Containers under 1000 lbs.

DOT Proper Shipping Label
Agricultural Insecticide, NOI

DOT Proper Placard Requirement: Not Applicable

Section 11-Other Information

Disclaimer Notice: The information in this MSDS was obtained from current and reliable sources. The data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the control of Matson, LLC, it is the responsibility of the user both to determine safe conditions for the use of this product and to assume liability for loss, damage or expense arising out of the improper use due to statements or omission in this MSDS. Various Governmental agencies (e.g. DOT, EPA, FDA etc.) may have specific policies concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in this MSDS. The user should review these regulations to insure full compliance.

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